

***Appendix G: Report: Treatability Studies for the Solar Ponds Plume at
Rocky Flats, Phase 2***

Final Report

Treatability Studies for the Solar Ponds Plume at Rocky Flats Phase 2

Prepared for

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1. Executive Summary

Treatability studies evaluating the viability of biological removal of nitrate for the Solar Ponds Plume at Rocky Flats were conducted by Colorado State University. Results indicated that near complete (i.e., greater than 99.9%) removal of nitrate from site groundwater is possible under study conditions.

The study was conducted in two stages. First, a laboratory batch reactor study was conducted to evaluate treatment performance using various sources of inoculum, carbon sources, and nutrient addition. Results from the batch reactor study were used to select treatment employed for the second stage, an on-site treatability study. The field study comprised two reactors containing differing substrate media: (1) pea gravel and (2) Jaeger Environmental NOR-PAC polypropylene packing media (NOR-PAC).

Results from the laboratory batch study indicated that nitrate reduction can be achieved using either wastewater treatment plant sludge or manure/soil as inoculum. This study also indicated that either methanol or ethanol would be effective as a carbon source, but addition of nutrients did not appear to provide substantial improvement in treatment.

The field study indicated that a bioreactor approach, using methanol as the carbon source and either pea gravel or NOR-PAC media as substrate, could be effective in reducing nitrate concentrations. Using water from the SPIN source as influent, nitrate concentrations were reduced in both reactors from 250-350 mg/L as N to less than 0.1 mg/L as N. Results were similar using Discharge Gallery water as influent, with nitrate concentrations reduced from 480-520 mg/L as N to less than 0.1 mg/L as N. Removal of uranium was also observed in both reactors.

Given the near complete removal of nitrate observed, optimization studies were conducted to resolve treatment performance with (1) a lower injection rate of methanol and/or (2) an increase in influent flow rate (i.e., a shorter residence time). Results indicated that decreasing the methanol injection rate from 1.6% to 0.8% (by volume) increased the effluent nitrate concentrations only slightly (to 0.2 mg/L as N). However, increasing the influent flow rate from 50 to 100 mL/min resulted in significant breakthrough of nitrate from both reactors. This result illustrates the sensitivity of the treatment to residence time in the reactors.

Upon decommission of the reactors, biofilm was observed only in the upstream half of the reactors. This may suggest that additional treatment capacity is possible in the test reactors given additional time for biofilm growth in the downstream portion of the reactors. It is possible that higher flow rates could have been accommodated in the test reactors had development of biofilm been achieved over the entire length of the reactors.

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3. Introduction

A treatability study was conducted by Colorado State University (CSU) evaluating treatment of groundwater in the Solar Ponds Plume site at Rocky Flats. The primary concerns with the Solar Ponds Plume are elevated concentrations of nitrate and uranium in groundwater and long-term cost and maintenance for the existing water treatment system. This report presents methods and results for the treatability study conducted by CSU.

The work discussed herein builds on Phase 1 research conducted in the fall of 2006. Specifically, Phase 2 attempted to address issues associated with the fall 2006 work through: (1) larger reactor vessels and longer target residence times, (2) design of reactors to prevent hydraulic short circuiting, (3) improved temperature control, and (4) evaluation of nutrients occurring in site groundwater. The Phase 2 study included two tasks. First, a laboratory study was conducted to screen various parameters (carbon source, addition of nutrients, and inoculum source). Second, an on-site treatability study was completed.

The existing collection and treatment system consists of an interceptor trench to collect groundwater downgradient of the former Solar Ponds. The interceptor trench terminates at the SPIN (collection well) at the low elevation point of the trench which contains a solar powered downhole pump. Water collected in the SPIN is pumped into the existing treatment cell where nitrate is removed biologically and uranium is removed using zero valent iron. The effluent is discharged downgradient at the discharge gallery (DG).

3.1 Study Objectives

The primary objective of the work conducted by CSU was to evaluate various treatment parameters, optimizing reduction of nitrate levels to meet the drinking water standard of 10 mg/L as N. In particular, the study was conducted to evaluate (1) substrate media and (2) other additives that would achieve biological reduction of nitrate in an engineered treatment cell. Two types of substrate media were evaluated: pea gravel and Jaeger Environmental NOR-PAC polypropylene packings (NOR-PAC). Evaluation of other additives included various carbon sources and alternative ingredients that could potentially boost biological activity.

To meet this objective, the study was divided into two stages. The first stage consisted of a preliminary laboratory study evaluating various combinations of potential additives. Following this, a field treatability study was conducted to resolve treatment effectiveness under on-site conditions.

3.1.1 Preliminary Laboratory Study

The preliminary laboratory study, which was conducted to provide information in support of on-site treatability study design, included two tasks. First, a geochemical assessment of groundwater (untreated influent) was conducted to evaluate potentially limiting factors that may affect performance of the field scale reactors. Following this, batch tests were completed to evaluate the relative nitrate removal efficacy of various combinations of inoculum, carbon source, and nutrient addition.

3.1.2 Field Treatability Study

The field treatability study was conducted in three phases to provide design information and performance operating information for a full scale biotreatment system for the Solar Ponds Plume. The first phase focused on treating groundwater collected from the Solar Ponds Plume intercept trench (referred to as SPIN), the second phase focused on treatment of water collected from the Discharge Gallery (DG), and the third phase evaluated treatment response to decreasing the carbon source concentration and increasing the flow rate.

4. Methods

4.1 Laboratory Batch Studies

Twenty five reactors were used to test various combinations of inoculum, carbon source, and other additives. Site water was collected on March 21, 2007 from the SPIN and DG for use in the batch reactors. Inoculum consisted of either wastewater treatment sludge or a mixture of animal manure and soil. Denatured ethanol or methanol (each at 2 percent by volume) was used as the carbon source (Fisher Scientific, Fair Lawn, NJ). Other additives were evaluated, including orthophosphate (10 mg/L as PO₄) (Fisher Scientific, Fair Lawn, NJ), yeast energizer (0.1 g/L)(J.D. Carlson, Kent, OH), whey (0.1 g/L)(Solgar Vitamin and Herb, Leonia, N.J.), and corn syrup (0.1 g/L)(ACH, Memphis, TN). The experimental design matrix is shown in Table 1. The experimental design was developed through discussion with Stoller personnel and Dr. Bruce Wielinga (GeoMatrix, Denver, CO). Additives were selected based on literature review and likelihood of use at the Rocky Flats site. Several treatments were tested in triplicate (noted by “3X” in Table 1) to evaluate repeatability of the experiment. To economize on the number of reactors, only four reactors were used to test DG water. It was hypothesized that the two sources (either SPIN or DG) would behave alike with respect to nutrient addition and alternate carbon sources. The four reactors testing water collected from the DG were included primarily as proof-of-process testing.

The batch test was conducted in 1L amber glass serum bottles (Figure 1). The cap of each reactor included two ports: one used as a vent, the other for sampling. The vent line was submersed in water, preventing atmospheric oxygen from entering the reactor. The initial headspace in the reactors was purged using nitrogen gas.

Performance evaluation consisted of collecting samples and analyzing for nitrate. An initial (time 0) sample was collected from each reactor and subsequent samples were collected weekly thereafter until sustained nitrate reduction was observed. Samples were collected via displacement of water by injecting an inert gas (e.g., nitrogen) into the reactor vessel head space. Displaced water was collected from the sample port for analysis. Analysis for nitrate was conducted via colorimetric methods (Hach Co., Loveland, CO). The method is based on cadmium-mediated reduction of nitrate to nitrite which reacts with sulfanilic acid, which in turn combines with gentisic acid to form an amber color. Analysis was performed using a Hach DR-3000 (Hach Method 8039). Reported precision is ±7.6% (Hach Co. 2004).

Table 1 . Experimental Matrix for Batch Studies

Inoculum	None	Sewage sludge	Manure /soil
Water Additives	SPIN Water		
None	X	X	X
Ethanol	X	3X	3X
Ethanol + phosphate		3X	
Methanol + phosphate		X	
Ethanol + phosphate + yeast energizer		X	
Ethanol + Whey	X	X	X
Ethanol + Corn Syrup		X	X
Methanol + phosphate + yeast energizer			X
Discharge Gallery Water			
Ethanol + phosphate + yeast energizer		3X	X

Following this initial study, select flasks (based on performance in the initial study) were evaluated for their ability to reduce nitrate in a residence time of 64 hours. The initial study required development of nitrate reducing consortia and therefore provided no information regarding steady state reaction rates. The second step was included to evaluate nitrate reduction rates in the presence of an established microbial community. To accomplish this, a nitrate spiking solution was added to select reactors. The spiking solution was prepared by adding sodium nitrate (NaNO_3) to de-ionized water. In select reactors, the spiking solution was used to increase nitrate levels to approximately 300 mg/L, simulating nitrate levels present in SPIN groundwater. After 64 hours a sample was collected and analyzed for nitrate. Results are discussed in Section 5.1.



Figure 1. Example of a batch reactor used in the preliminary studies to evaluate carbon source, inoculum and nutrient addition.

4.2 Field Treatability Studies

Following the laboratory studies, a field treatability study was conducted. The field treatability study comprised two reactors, containing either pea gravel or NOR-PAC media. To provide a steady source of water for the reactors, a holding tank was used. Tasks related to the field treatability study included reactor design and construction, installation, inoculation, sampling and analysis, and tracer studies. Each task is described in this section.

4.2.1 Reactor Design and Construction

For the field treatability study, two reactors were fabricated at CSU. Reactor design was based on either pea gravel or NOR-PAC media (Table 2) as substrate. Reactor bodies were constructed of PVC and were closed at both ends by blind flanges (see Appendix B). Influent and effluent lines were connected via ports installed into the flanges at each end of the reactors. To prevent gas buildup within the reactors, vent ports were installed in the PVC reactor body. Reactor specifications are shown in Table 3 and drawings are included in Appendix A.

4.2.2 Reactor Installation

The test reactors were installed on May 15-18, 2007. Installation was completed without incident and flow through the reactors was initiated on May 21 using SPIN water. A schematic illustration of the system layout is shown in Appendix A. Field installation photos are included in Appendix B. On May 31, the reactors and inlet reservoir were covered with wood chips to insulate the system from temperature variability.

Inoculation of the reactors was completed on May 25. Prior to the inoculation, flow from the holding tank through the reactors had been continuous for four days (May 21-25). Each reactor was inoculated using a mixture of approximately 5 gallons of wastewater treatment plant sludge and 1 kg of soil. The sludge was obtained from the aeration basin at the Drake Water Reclamation Facility in Fort Collins, Colorado. Site soils (collected from the DG) were included as an additional source of nitrate reducing bacteria that have acclimated to site-specific conditions. Following inoculation, 1.6 percent methanol (by volume), approximately 0.5 oz. yeast energizer (J.D. Carlson, Kent, OH) and approximately 125 g Na₂HPO₄ (Fisher Scientific, Fair Lawn, N.J.) were injected into each reactor (inoculants and additives were selected based on results from the laboratory batch studies). The yeast energizer and phosphate were added to aid the system during startup but were not added during the routine study. Following inoculation, the initial volume of SPIN water was recirculated through the reactors for four days to improve distribution of the inoculum and allow microbes to establish on the reactor media before initiating normal operation. On May 29, recirculation was stopped and normal operating flow through the reactors was initiated.

Table 2. Substrate media specifications.

Media	Surface area (ft ² /ft ³)	Void ratio (%)	Bulk density (lb/ft ³)
NOR-PAC (5/8")	101 ¹	88 ¹	7 ¹
Pea gravel	200 ²	30 ²	100 ²

¹ – Manufacturer supplied data (Jaeger Environmental).

² – Estimated values.

Table 3. Reactor specifications.

Dimensions	NOR-PAC Reactor	Pea Gravel Reactor
Diameter - interior	15" (38 cm)	26.875" (68 cm)
Length	72" (183 cm)	73.5" (187 cm)
Volume	55 gal (208 L)	178 gal (674 L)
Pore volume	48 gal (182 L)	53 gal (201 L)
Target Residence time	64 hours	64 hours
Residence time measured	37 hours	36 hours

4.2.3 Sampling and Analysis

The primary method of performance analysis was comparison of nitrate concentration between the influent and the reactor effluents. Other data collected included physical parameters and methanol concentration.

Routine monitoring was completed at least once per week throughout the study. Routine monitoring included collecting water samples and measuring physical properties in the influent tank and effluent from each reactor. Water samples were stored on ice and transported to CSU for nitrate analysis within 48 hours. Nitrate concentrations were determined by Ion Chromatography (IC) (Metrohm Ltd., Herisau, Switzerland). Physical parameters (temperature, specific conductance, dissolved oxygen concentration, pH, and oxidation-reduction potential) were monitored using a hand-held multiparameter sonde meter (YSI, Yellow Springs, OH). Flow-through cells were installed in effluent lines from both reactors for physical parameter measurements using the sonde. The sonde was calibrated immediately prior to each sampling event and calibration was checked following measurement (see Appendix F).

Throughout the study, water temperatures were logged at 15 minute intervals using automatic data loggers (Onset Computer, Pocasset, MA). These temperature sensors were placed in the SPIN, influent holding tank, and effluent flow cells for each reactor.

Additional data collected included levels of methanol, Total Organic Carbon (TOC), Total Suspended Solids (TSS), and dissolved uranium. Methanol concentrations were measured in the influent and effluent lines once approximate steady-state conditions were achieved. Methanol analysis was conducted either at the CSU Center for Contaminant Hydrology (CCH) or at Severn-Trent Laboratories (STL), Denver, Colorado. Methanol analysis at the CCH was completed using headspace injection techniques and Gas Chromatography (GC) with a Flame Ionization Detector (FID). STL analyzed for methanol via method SW846 8015B. Other analytes (TOC, TSS, dissolved uranium) were also evaluated (STL) after steady-state conditions were achieved.

4.2.4 Residence Time Determination

Tracer studies were conducted to estimate the average hydraulic residence time in each reactor. An initial study was conducted in the laboratory prior to field deployment, evaluating the NOR-PAC media reactor. Testing of the pea gravel reactor in the laboratory was not completed due to expected differences in gravel characteristics between laboratory gravel and gravel to be used in the field treatability study. An *in situ* tracer study was conducted in late June, approximately one month after the field treatability study began. The NOR-PAC and pea gravel reactors were both evaluated as part of this study. Methods and results of the tracer studies are discussed in Appendix C.

In the laboratory study, as shown in Appendix C, the residence time in the NOR-PAC reactor was measured to be approximately 68 hours. In the field study, results indicated a residence time of approximately 37 hours in both the gravel and NOR-PAC reactors. The shorter residence time achieved in the field is likely attributable to (1) settlement of media creating selective flow paths and (2) restricted treatment volume within the reactors due to buildup of evolved gasses.

5. Results

5.1 Laboratory Batch Studies

Preliminary laboratory studies included treatment of water from the SPIN, treatment of water from the DG, and kinetics analysis. Four of the treatments were prepared in triplicate. A comparison of results from triplicate samples is presented in Appendix E. In addition, a geochemical analysis of SPIN water was conducted. Each of these is discussed in this section.

5.1.1 SPIN Water Batch Study

The control reactors (i.e., those to which no inoculum or other amendments were added) maintained relatively constant nitrate concentrations over the two week study. Results indicate that addition of both sludge and ethanol was effective in reducing nitrate concentration (Figure 2). Used alone, however, neither ethanol nor sludge were effective in removing nitrate.

Both carbon sources (ethanol or methanol) yielded similar nitrate removal rates (Figure 3) and comparison of inocula indicated that manure/soil can remove nitrate in the absence of an additional carbon source (Figure 4). Addition of whey, yeast energizer, or corn syrup did not provide substantial improvement in nitrate removal when tested with ethanol as the primary carbon source (Figure 5), but addition of ethanol as a carbon source improved nitrate removal using either inoculum (Figure 6). Note that whey, yeast energizer and corn syrup were not tested as the primary carbon source since it was determined that handling issues would preclude stand-alone use at the Rocky Flats Site (e.g., cold temperature application). Addition of carbon source and amendments to reactors inoculated with manure/soil indicated no clear benefit of additional amendments, but indicated that methanol, when combined with phosphate and yeast energizer, could potentially outperform ethanol in terms of nitrate removal (Figure 7). Note that a direct comparison of carbon source and additives was not made using the manure/soil inoculum.

The most promising treatments from the SPIN water portion of the preliminary batch study are shown in Figure 8. These results suggested that using either sludge or manure/soil as inoculum, when combined with either ethanol or methanol as a carbon source, would be effective in reducing nitrate concentrations in water from the SPIN. Use of manure/soil with no additional carbon provided significant nitrate reduction as well. In general, the results also suggested that adding whey, yeast energizer, phosphate, or corn syrup provided no clear advantage.

5.1.2 DG Water Batch Study

All of the reactors which tested DG water indicated high fractional removal of nitrate (Figure 9). The reactor testing manure/soil inoculum indicated faster removal but overall treatment between inocula was similar. This result supports the results outlined above, indicating that either inoculum would be effective for nitrate removal.

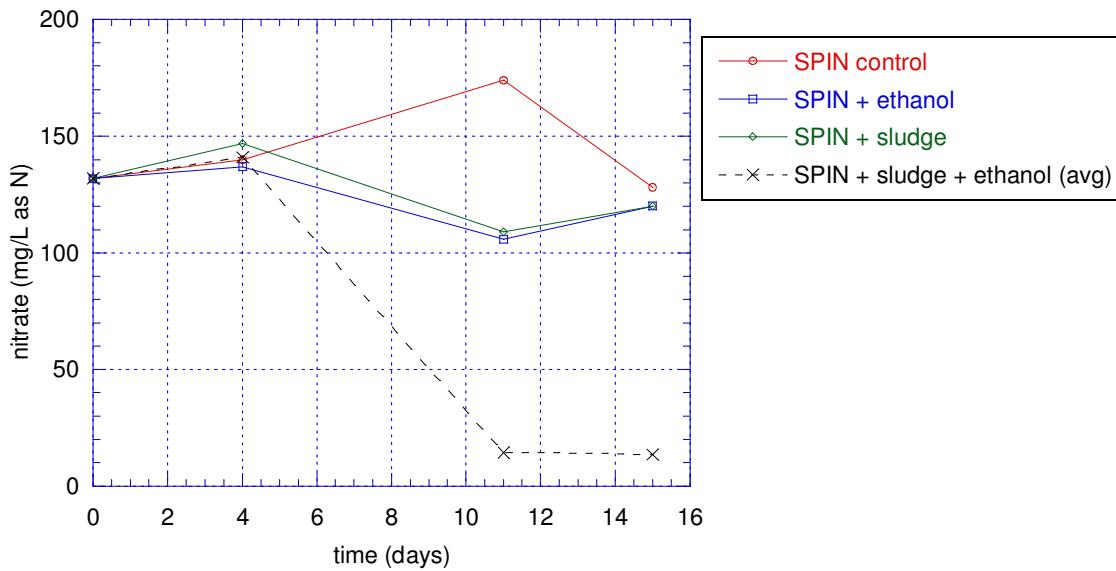


Figure 2. Comparison of nitrate concentration (mg/L as N) as a function of time in the control reactors and those testing sludge and ethanol. The data posted for SPIN + sludge + ethanol is the average nitrate concentration from triplicate reactors.

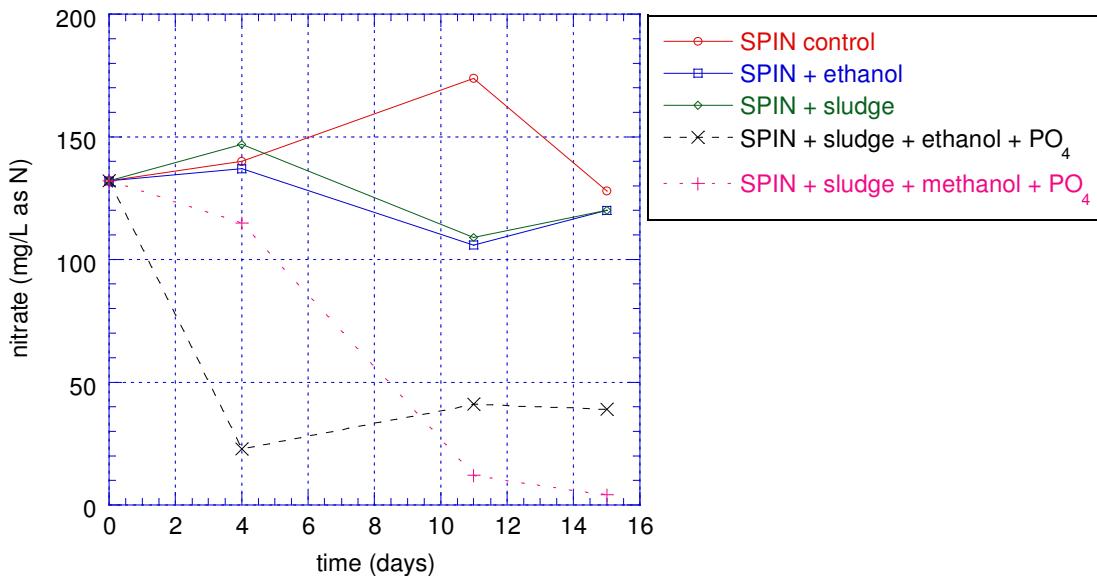


Figure 3. Comparison of ethanol to methanol as a carbon source for reducing nitrate in the batch reactors. Also included are control reactor concentrations. The data posted for SPIN + sludge + ethanol + PO₄ are the average nitrate concentration from triplicate reactors.

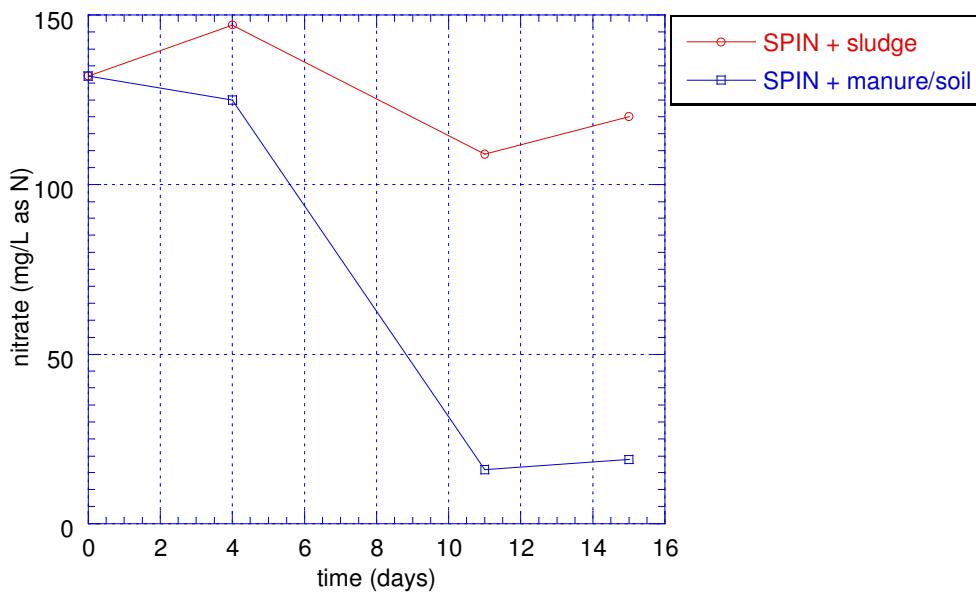


Figure 4. Comparison of nitrate removal using differing inocula. Note that no additional carbon source was added.

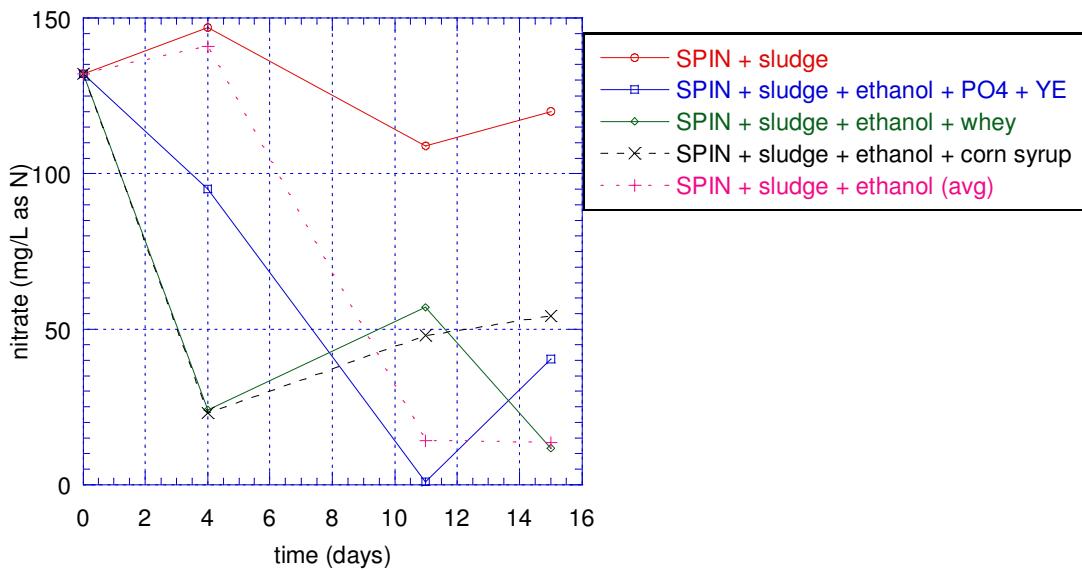


Figure 5. Comparison of nitrate removal using the additives yeast energizer (YE), whey, and corn syrup (CS).

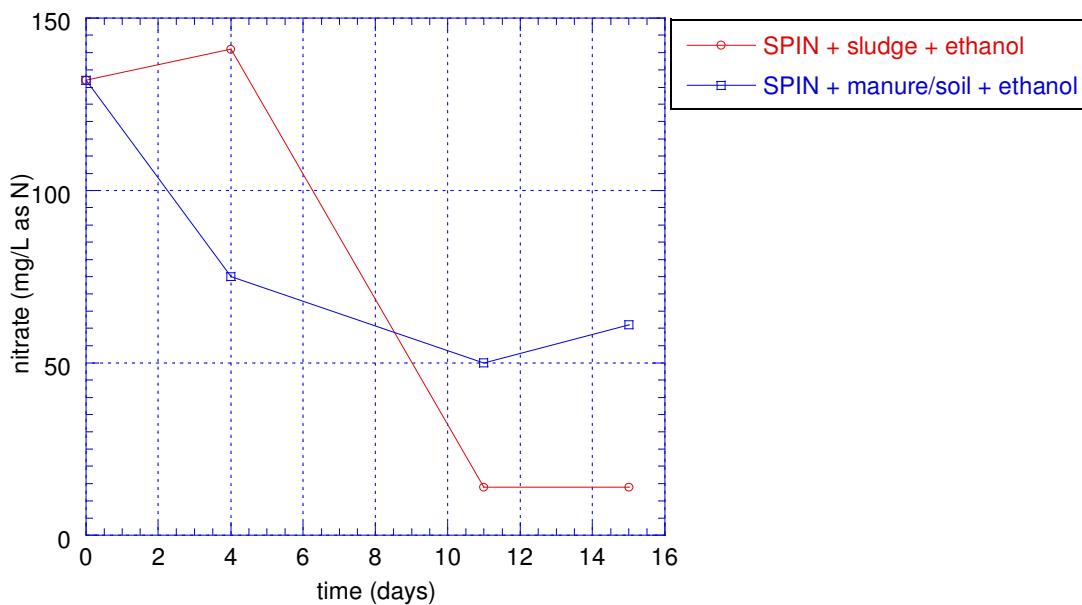


Figure 6. Comparison of nitrate removal for different inocula in the presence of added carbon source. The data sets posted indicate the average nitrate concentration from triplicate reactors.

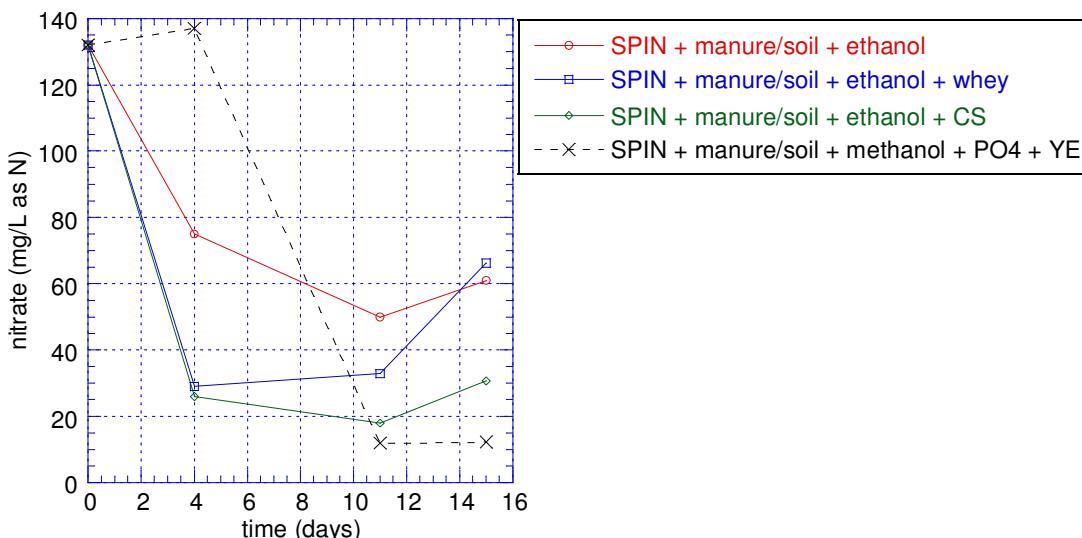


Figure 7. Comparison of nitrate removal using manure/soil inoculum with the amendments whey, corn syrup (CS), and yeast energizer (YE) and methanol as the carbon source. The data posted for SPIN + manure/soil + ethanol are the average nitrate concentration from triplicate reactors.

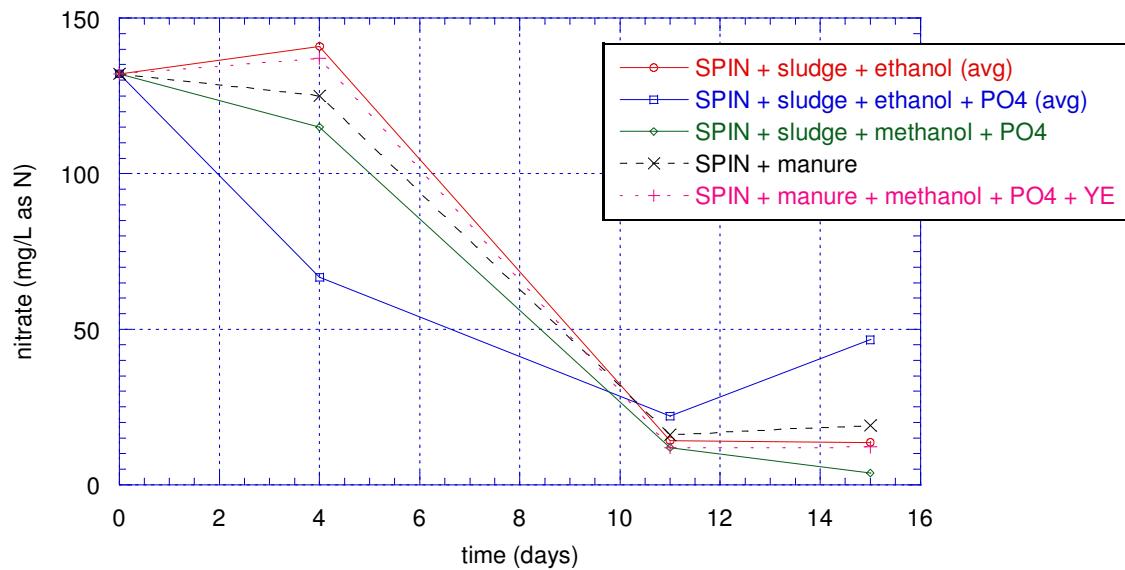


Figure 8. Summary of most promising treatments in the preliminary batch study.

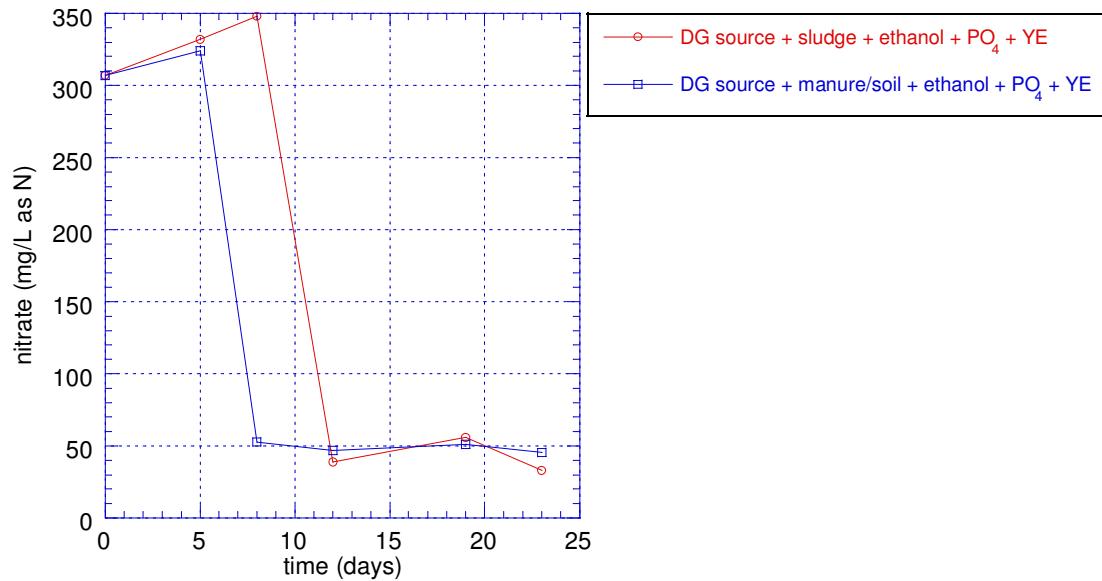


Figure 9. Comparison of nitrate removal using the DG source water, PO₄, yeast energizer (YE) and differing inoculum. The data posted for DG source + sludge + ethanol + PO₄ + YE are the average nitrate concentration from triplicate reactors.

5.1.3 Reaction Kinetics

Following the initial laboratory study, ten reactors were selected to evaluate reaction kinetics by adding nitrate (and amendments as required) and measuring nitrate concentration after the target 64 hour field reactor residence time. Results were largely inconclusive, suggesting possible contamination of the reactors with sulfide formed from reduction of dissolved sulfate present in groundwater at the site. However, results did suggest that using methanol as a carbon source may have advantages since the two reactors testing methanol as a carbon source removed the highest fraction of nitrate in the 64 hour test. Table 4 contains a summary of the results after 64 hours. The limited nitrate removal observed during this test does not imply that sulfide or other toxicity would be a concern in a flow-through reactor since scavenging of sulfide or advective losses of toxic components may result in removal of these compounds from the system.

Table 4. Nitrate concentration (mg/L as N) after 64 hours in the laboratory batch reactors.

Reactor ID	Nitrate concentration (mg/L as N)
SPIN control	426
SPIN + ethanol	385
SPIN + ethanol + sludge	328
SPIN + ethanol + sludge	299
SPIN + ethanol + sludge + PO ₄	281
SPIN + methanol + sludge+ PO ₄	1.63
SPIN + ethanol + manure/soil	311
SPIN + methanol + manure/soil + PO ₄ + YE	84.9
DG + ethanol + sludge + PO ₄ + YE	336
DG + ethanol + manure/soil + PO ₄ + YE	258

5.1.4 Groundwater Geochemical Analysis

Water quality analysis of samples taken from the SPIN on April 30, 2007 indicated a calcium chloride type water. Relatively high iron, manganese, and the presence of nitrite (Table 5) suggest mildly reducing conditions, although physical measurements taken from the holding tank suggest oxidizing conditions (see Appendix D). Uranium concentration was moderate (34 µg/L), but strontium concentration was high (2.4 mg/L). Nitrate concentration was within the expected range (220 mg/L as N). Phosphate was not detected in the sample collected. Geochemical speciation (Visual Minteq 2.52) indicated supersaturation with respect to UO₂(amorphous) and uraninite, suggesting that uranium precipitation may be expected in the treatability reactors. Barite was also calculated to be supersaturated and may precipitated in the treatability reactors.

Table 5. Water quality analysis highlights from the SPIN source.

Analyte	result	units
Barium	220	µg/L
Boron	110	µg/L
Calcium	300	mg/L
Cadmium	1	µg/L
Iron	29	µg/L
Potassium	7.7	mg/L
Lithium	170	µg/L
Magnesium	80	mg/L
Manganese	26	µg/L
Sodium	400	mg/L
Nickel	9.1	µg/L
Silica	160	mg/L
Strontium	2.4	mg/L
Titanium	1.8	µg/L
Uranium	34	µg/L
Zinc	50	µg/L
Zirconium	3.6	µg/L
Chloride	530	mg/L
Fluoride	0.77	mg/L
Nitrite	1.1	mg/L
Nitrate (as N)	220	mg/L
Sulfate	150	mg/L

5.2 Field Treatability Studies

The test reactors were installed on May 15-18, 2007 (See Appendix A). An initial study, evaluating treatment of SPIN water, commenced on May 29. On July 24, the SPIN study was terminated and a second study was started using water from the DG. The DG study was continued for two weeks. Following this, a final study was conducted evaluating alternative rates of influent flow and methanol injection. Each of these is discussed below.

5.2.1 SPIN Water Treatability Study

Background Conditions

On May 29, continuous flow was initiated using SPIN water (the system had been operating in recirculation mode since May 25). The system conditions at the time of startup were as follows:

- flow rate through each reactor = 50 mL/min.
- methanol injection rate = 0.8 mL/min (1.6 % by volume of the total flow into each reactor)
- influent pH at startup (holding tank) = 6.8
- influent temperature (holding tank) = 13.7 °C

Comparison of temperature conditions between the SPIN and the holding tank indicated that minor temperature increases (1-2°C) occurred when water was pumped to the holding tank (see Appendix D). Influent nitrate concentration at the startup of the experiment was approximately 350 mg/L as N and ranged between 250-350 mg/L as N throughout the 55 day experiment (Figure 10). Nitrate loading rates to the reactors ranged from 18 to 25 g/d as N. For the SPIN water study, each reactor treated approximately 20 pore volumes of water.

Nitrate Removal

Results indicate that both reactors achieved significant nitrate removal, reaching levels of approximately 0.1 mg/L as N (Figure 10). This is well below the target level of 10 mg/L as N and indicates nitrate reduction of greater than 99.9%. Nitrate concentrations remained low for the remainder of the experiment with the exception of a brief period around 30-35 days, in which an increase is apparent in both reactors. It is hypothesized that the fluorescein tracer temporarily interfered with nitrate reduction (the tracer was injected on day 28). These nitrate levels returned to low values by day 50 in both reactors.

Other Constituents

Water samples were collected on day 55 of the experiment and analyzed for additional constituents. Analysis was conducted by a commercial laboratory (STL). Results are included in Table 6.

Table 6. Analytical results for samples collected at the conclusion of the SPIN treatability study.

Location	Uranium ($\mu\text{g/L}$)	TSS (mg/L)	TOC (mg/L)	Alkalinity (mg/L as CaCO_3)	Methanol (mg/L)
Influent (SPIN)	55	4.8	6.9 ¹	258	12,640 ²
NOR-PAC effluent	13	6.9	7500	592	3300
Gravel effluent	3.5	42	3500	550	2400

¹ Sample taken from holding tank, prior to methanol injection

² Value calculated based on injection rate

Both reactors indicate reduced uranium concentrations when compared to the influent level. Apparent uranium removal may be attributed to precipitation in the reactor. Total suspended solids (TSS), total organic carbon (TOC), and alkalinity increased through both reactors. TSS increases in the reactor testing pea gravel media could potentially lead to plugging. Influent TOC levels reflect conditions upstream of the methanol injection point. As such, TOC increases are attributed to methanol and associated bioreactor products. The alkalinity increase may be due to several factors including addition of conjugate bases of organic acids. Methanol was detected in the effluent stream from both reactors. It is also noted that the selected methanol injection rate of 1.6 percent exceeds the stoichiometric requirement for the system and includes a safety factor. Through more detailed analysis, sufficient reduction may be possible at a lower methanol feed rate.

Physical parameters

Measured temperature data indicates that the reactors were well insulated by the blanket of wood chips (see Appendix D, figure D1). A minor temperature increase was noted in the holding tank and the reactors relative to the SPIN. Measurement of temperature in the SPIN was discontinued when access to the datalogger was lost.

Conductivity (see Appendix D, figure D3) decreased from the influent (approximately 4500 $\mu\text{S}/\text{cm}$) to the effluent in both reactors (approximately 2500-3000 $\mu\text{S}/\text{cm}$). This decrease is likely due to loss of nitrate (to nitrogen/nitrogen oxide gas phases) and/or precipitation of ionic species as solid phases.

Dissolved oxygen (see Appendix D, figure D2) decreased through the reactors (from approximately 4 mg/L to 2 mg/L) although high variability in measurement was observed. Limitations of the membrane electrode method combined with the flow cell approach used for measurement of dissolved oxygen likely resulted in the relatively high effluent concentrations measured.

In general, pH values (see Appendix D, figure D4) were slightly higher in the effluent from both reactors. Measured values were typically 6.9 in the influent and 7.2 in the reactor effluents.

Oxidation reduction potential (see Appendix D, figure D5) decreased from a typically positive value in the influent to a negative value (approximately -300 mV vs Ag/AgCl) in the effluent from both reactors. When corrected to reference the standard hydrogen electrode (+200 mV), these values are consistent with nitrate reducing conditions.

Summary of SPIN Study Results

Overall, the experiment indicated that nitrate concentrations in the SPIN can be reduced in bioreactors containing both media types to very low concentrations using methanol as a carbon source. In terms of daily loading, nitrate was removed at a rate ranging from 18–25 g/d as N depending on variability in influent concentration.

The long term sustainability of this treatment approach was not tested.

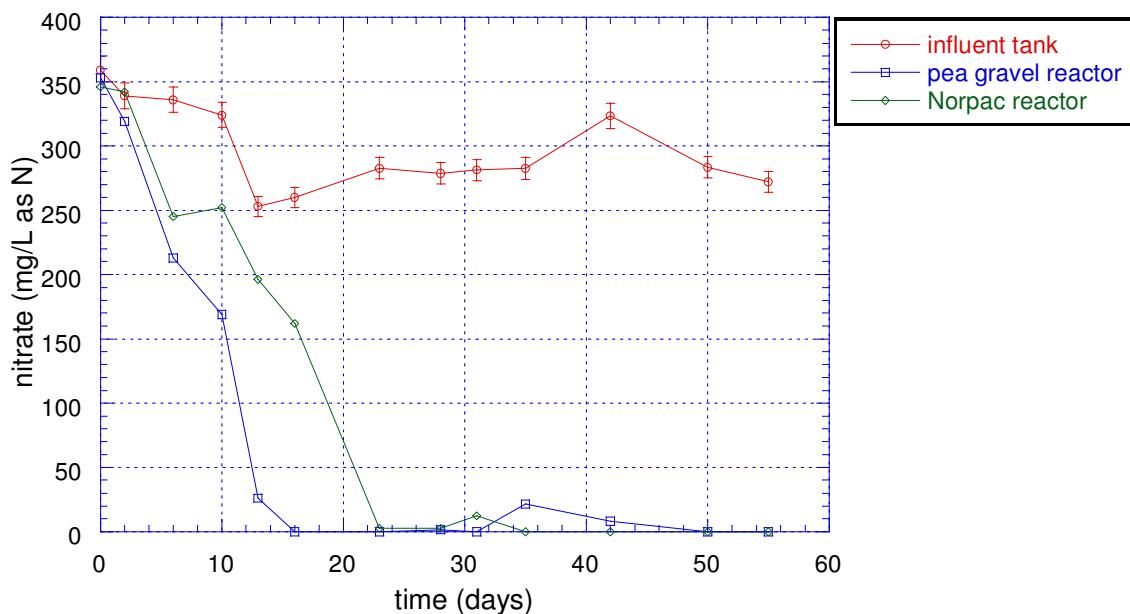


Figure 10. Nitrate (as N) concentrations in the influent holding tank (red), and the effluent from each test reactor (blue: pea gravel, green: NOR-PAC) as a function of time. The experiment testing the water collected in the SPIN was conducted over 55 days.

5.2.2 DG Water Treatability Study

Background Conditions

After reaching apparent steady-state using SPIN water, the study was continued for 14 days (July 24 – August 7) using water collected at the DG flume. Initial conditions were as follows:

- flow rate through each reactor = 50 mL/min.
- methanol injection rate = 0.8 mL/min (1.6% by volume of the total flow into each reactor)
- influent pH at startup = 7.1
- influent temperature = 12.9 °C

Water was collected from the DG at the flume discharge using a polyethylene funnel and tubing. The DG water was collected in 15 gallon polyethylene tanks and transported to the SPPTS, where it was transferred to the holding tank. Since the holding tank was not operating as a flow through cell as in the SPIN portion of the study, temperature increased in the holding tank throughout this portion of the study (Appendix D, figure D6). The holding tank was filled on July 24 and refilled on July 26, 28, 29, and 31. For the DG water study, each reactor treated approximately 5 pore volumes of water.

Concerns were raised as to the stability of nitrate in the holding tank for the DG study. In particular, with the holding tank no longer operating in flow-through mode, microbes present in the DG water might begin to reduce nitrate. To evaluate the potential for nitrate reduction in the holding tank, water samples were collected during the initial filling of the holding tank with DG water (July 26). The samples were stored in the holding tank for 12 days and then analyzed for nitrate. After this time, the change in nitrate levels was approximately 1.4 percent. These results indicated that nitrate levels in the holding tank should be stable over relatively short duration (14 days) of the DG study. This result was confirmed with analysis of DG study samples (Figure 11), which indicated steady nitrate levels in the holding tank.

Nitrate Removal

Influent nitrate concentrations over the 14 days of the experiment ranged from 480 mg/L as N to 550 mg/L as N. Both types of media continued to perform effectively (Figure 11), reducing nitrate to detection limits (0.1 mg/L). Nitrate removal rates ranged from approximately 34 g/day to 40 g/day as N.

Other constituents

At the conclusion of the 14-day DG experiment, water samples were collected from the influent tank and effluent lines from each reactor to be analyzed for uranium, TSS, TOC, alkalinity, and methanol (Table 7). Analysis was conducted by a commercial laboratory (STL).

Table 7. Analytical results for samples collected at the conclusion DG portion of the field treatability study.

Location	Uranium ($\mu\text{g/L}$)	TSS (mg/L)	TOC (mg/L)	Alkalinity (mg/L as CaCO_3)	Methanol (mg/L)
Influent (DG)	68	<10	9.7 ¹	307	12,640 ²
NOR-PAC effluent	36	19	12,000	760	<100
Gravel effluent	24	67	5500	1030	<100

¹ Sample taken from holding tank, prior to methanol injection

² Value calculated based on injection rate

For the DG study, the nitrate loading to the columns increased by a factor of approximately 1.5 relative to the SPIN study. All methanol was removed in the DG study, whereas methanol remained in the effluent of both reactors in the SPIN study. It seems possible that microbial metabolism required more methanol in the DG study to complete treatment of the higher nitrate loading. Uranium concentrations decreased in both reactors, although not to the same extent observed during the SPIN experiment. This may be attributable to the higher nitrate loading or the shorter time of experimental duration. Increased values of TSS, TOC, and alkalinity were noted during this phase of the experiment. Of particular note is the increase in TOC in the NOR-PAC reactor (9.7 mg/L in the influent to 12,000 mg/L in the effluent). It is possible that this increase in TOC can be traced back to addition of methanol, even though methanol was not detected in the effluent. Effluent TOC would therefore represent a biologically-processed form of the injected methanolic carbon. This explanation is supported by the relatively high TSS observed in the effluent from the NOR-PAC reactor (19 mg/L vs. 6.9 mg/L during the SPIN test).

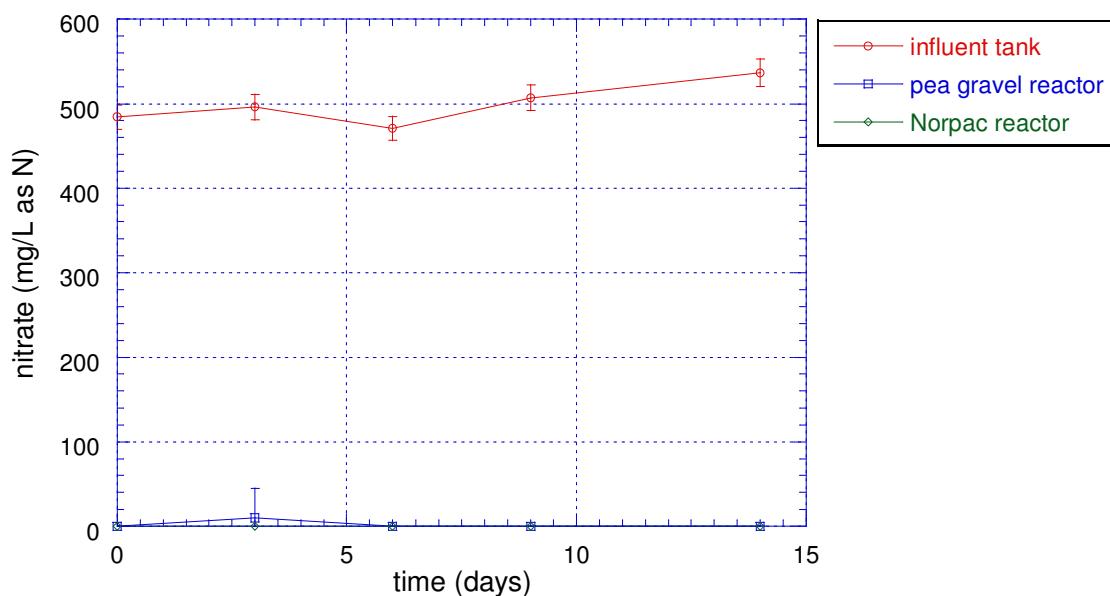


Figure 11. DG study nitrate concentrations in the influent holding tank (red) and effluent from each test reactor (blue: pea gravel, green: NOR-PAC) as a function of time.

Physical Parameters

Temperatures measured (see Appendix D, figure D6) during the DG phase of the experiment were higher than during the SPIN source phase due to the lack of continuous pumping from the source (see Appendix D for graphics). This elevated temperature may not be representative of operating conditions in a full-scale system. Nitrate removal rates at these elevated temperatures may also not be representative of full-scale operation.

Conductivity (see Appendix D, figure D8) decreased from the influent (approximately 5750 µS/cm) to the effluent in both reactors (approximately 3000 - 3300 µS/cm). This decrease is likely due to loss of nitrate (to nitrogen/nitrogen oxide gas phases) and/or precipitation of ionic species as solid phases on the surface of the media.

Dissolved oxygen (see Appendix D, figure D7) decreased through the reactors (from approximately 5 mg/L to 2 mg/L), although some variability in measurement was observed. Limitations of the membrane electrode method combined with the flow cell approach used for measurement of dissolved oxygen likely resulted in the relatively high effluent concentrations measured.

pH measurements (see Appendix D, figure D9) were approximately neutral (7.0) in the influent and the effluent from both reactors. Treatment of nitrate resulted in a negligible change in pH.

Oxidation reduction potential (see Appendix D, figure D10) decreased from a typically positive value in the influent (range 0 to 100 mV vs Ag/AgCl) to a negative value (approximately -300 mV vs Ag/AgCl) in the effluent from both reactors. These values are consistent with nitrate reducing conditions.

Summary of DG Study Results

Overall, the experiment indicated that nitrate concentrations in the DG can be reduced in bioreactors containing either substrate media to very low concentrations using methanol as a carbon source. In terms of daily loading, nitrate removal rates ranged from 34 g/day to 40 g/d depending on variability in influent concentration.

The long term sustainability of this treatment approach was not tested.

5.2.3 Flow Optimization Treatability Studies

Following the primary studies to test viability of a bioreactor approach for treating nitrate in the Solar Ponds Plume, a series of tests (using water from the SPIN) were conducted to evaluate the influence of decreased methanol concentration and increased flow rate on nitrate removal.

First, the methanol injection rate was decreased by a factor of two (to 0.4 mL/min). At the decreased methanol injection rate, nitrate levels in the effluent of both reactors increased only slightly, to approximately 0.2 mg/L as N after 7 days (Table 8). This result suggests that, at nitrate levels found in the SPIN, methanol injection rates could be reduced without significant effects on nitrate removal. It should be noted that decreased methanol was not evaluated for the higher nitrate concentration found in the DG water. As such, a reduced methanol injection rate may not be sufficient for treatment of DG water.

Following this, the influent flow rate was increased by a factor of two (to 100 mL/min). At the increased flow rate, nitrate levels increased in the effluent from both reactors. After 7 days, nitrate levels remained below 10 mg/L as N in the NOR-PAC reactor, but were higher than the target concentration in the gravel reactor. With reduced methanol and high flow rate, effluent nitrate increased in both reactors to levels well above treatment guidelines. This result emphasizes the importance of residence time for nitrate removal.

Table 8. Nitrate concentrations for flow rate and methanol injection rates.

		flow rate to reactors (mL/min)	
		50	100
Methanol injection rate (mL/min)	0.8	Influent = 298 mg/L as N NOR-PAC = <0.1 mg/L as N Gravel = <0.1 mg/L as N	Influent = 247 mg/L as N NOR-PAC = 5.0 mg/L as N Gravel = 46.1 mg/L as N
	0.4	Influent = 244 mg/L as N NOR-PAC = 0.2 mg/L as N Gravel = 0.2 mg/L as N	Influent = 248 mg/L as N NOR-PAC = 107 mg/L as N Gravel = 35.4 mg/L as N

As part of the optimization studies, water samples were collected and sent to a commercial laboratory for methanol analysis. Results are shown in Table 9. Methanol analytical results did not provide a clear indication of the rate of methanol use. Methanol levels in the influent samples were less than calculated methanol concentration for the given flow rates. Also, effluent methanol levels were close to or higher than influent methanol levels. These results may indicate that incomplete mixing occurred in the lines prior to the sampling point.

Table 9. Measured methanol concentrations in influent and effluent from each reactor.

Water flow rate (mL/min):	100	100
Methanol rate (mL/min):	0.8	0.4
Methanol Concentration (mg/L)		
Influent (calculated) ¹	10,100	5,050
Influent (measured)	2,700	2,300
NOR-PAC effluent	3,900	860
Gravel effluent	820	2,400

¹ – Value calculated based on methanol and water injection rates, assuming methanol has a density of 0.791 grams per milliliter.

5.3 Methanol Usage

A plot showing average methanol usage versus time is shown in Figure 12. Methanol usage rates fluctuated throughout the study. This fluctuation is likely attributable to peristaltic tubing wear. One deviation from normal methanol injection rates was observed at day 50, when the methanol reservoir for the NOR-PAC reactor had become disconnected. As such, methanol was not injected into the NOR-PAC reactor for a short time. For the optimization study (day 70), the methanol injection rate was halved for one week. Following this one-week study, the methanol rate was restored to normal levels.

With the fluctuations noted in methanol usage rate, nitrate reduction results remained stable. These results indicate that system performance, under conditions of the field treatability study, is relatively insensitive to the rate of methanol injection over the ranges measured.

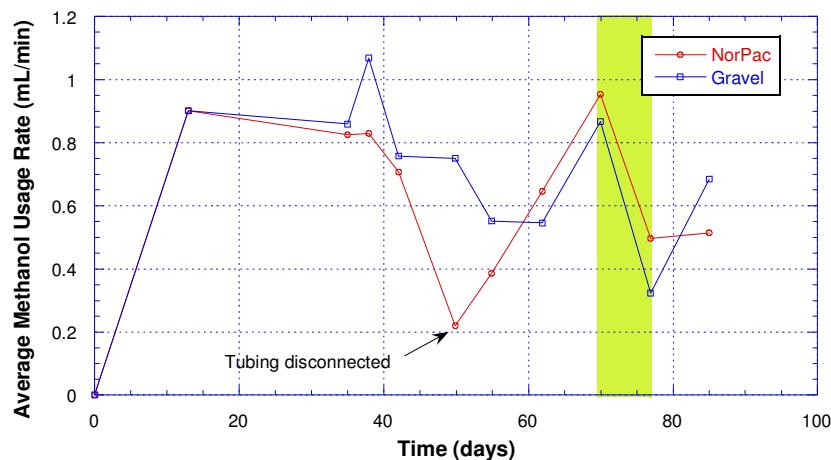


Figure 12. Methanol usage vs. time. The highlighted region (days 70 to 77) indicates the portion of the optimization study which was operated at a reduced methanol injection rate.

5.3.1 Reactor Decommissioning

On September 11, 2007, flow to the reactors was stopped and the reactors were left to drain overnight. On September 12, both reactors were opened and all of the substrate media removed. During removal, the media was inspected for evidence of plugging, short circuit flow, or biofouling. General observations are as follows:

- Biofilm was apparent in the influent tubing downstream of the point of methanol injection. This indicates that biological activity may be beginning before flow reaches the reactors, using the tubing wall as substrate.
- Significant volumes of biosolids were present in the influent header tank of each reactor (Figure 13), possibly resulting from biological activity in the influent tubing and header tank of each reactor. No attempt to identify the organisms within the biosolids was made.
- For both reactors, visible inspection indicated that biofilm was generally limited to the upstream $\frac{1}{2}$ of the reactor (shown in Figure 13). Analysis of the biofilm composition was beyond the scope of this project.
- No evidence was observed indicating short circuiting of flow or plugging of the reactors. However, several semi-cohesive clods of apparently biofouled media were observed at the influent end of the pea gravel reactor, suggesting that pea gravel media may be subject to biofouling over time. Rigorous evaluation of the degree of reactor biofouling was difficult through a visual approach since opening of the reactors resulted in substantial disturbance to the media.

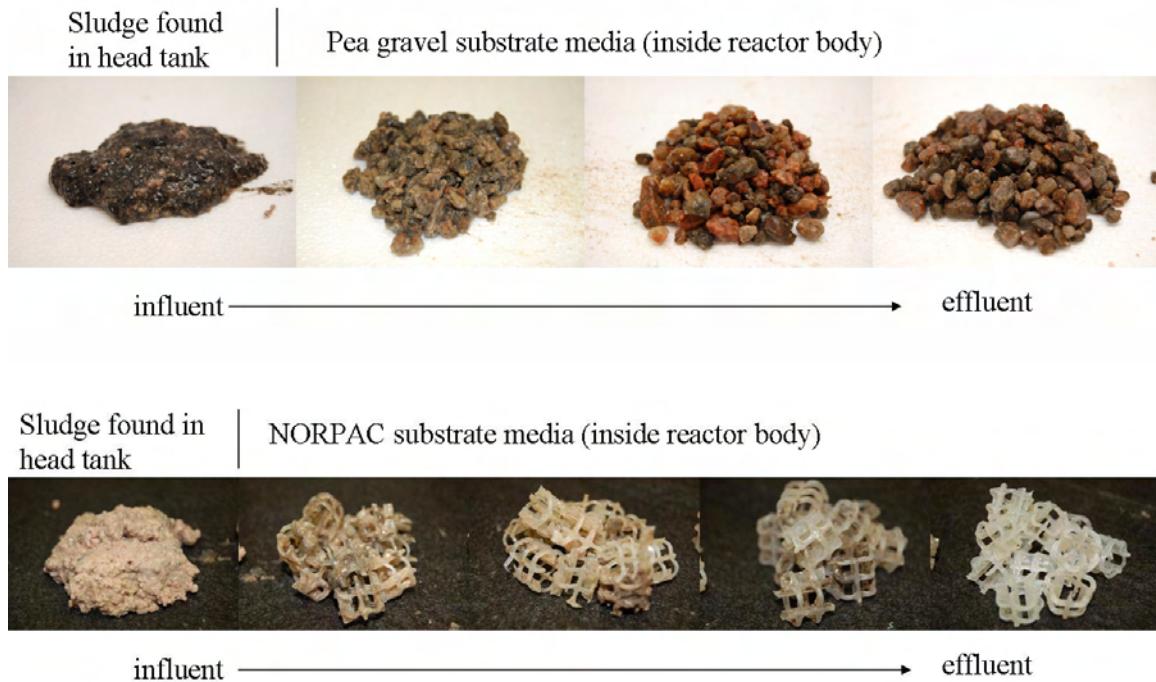


Figure 13. Photographs showing biofilm development on substrate media – gravel (top) and NOR-PAC (bottom).

6. Conclusions and Design Recommendations

The Phase 2 Treatability Studies indicated that biological reduction of nitrate in the Solar Ponds Plume appears to be a viable approach using methanol as a carbon source. Under conditions of the study, both media types (pea gravel and NOR-PAC) proved amenable to nitrate removal to levels below the target concentration of 10 mg/L as N. This was achieved without addition of supplemental nutrients (such as yeast energizer, phosphate, whey or corn syrup), suggesting that this may not be required to achieve treatment objectives. In addition to this, several observations were made during the experiment that may be pertinent to design of a full-scale treatment system. These are described below.

6.1 System Design Parameters

Reactor design notes include oxygen exclusion, temperature control, and venting:

- For nitrate reduction to occur, dissolved oxygen in the system must be depleted.
- Biological systems are very sensitive to temperature fluctuations. Burial of the reactors could aid in both air exclusion and temperature control.
- Biological processes lead to formation of gases, such as CO₂, N₂, or NO_x.
Accumulation of gases in the reactor could lead to problems related to pressure buildup and restricted water flow paths. As such, it is advisable to include a vent into the system design. The gas vent should allow gas to escape while precluding oxygen entry into the system. Additionally, gas trapping within the pore spaces of a reactor packed with a media such as pea gravel may result in short circuiting of flow and diminished treatment over time.

The reactor design could also include components that will aid in future troubleshooting. For example, sample ports over the length of the reactor will aid in determining where nitrate reduction is occurring, hence the portion of the reactor that is biologically active. Flow restrictions due to biofouling or gas accumulation could perhaps be identified via pressure measurements over the length of the reactor body. Finally, the plan should include monitoring of flow rate and average hydraulic residence time. All of the above will aid in resolving reactor performance.

For the field treatability study, a holding tank was used to regulate flow. Due to the unsteady nature of flow originating from the SPIN, a holding tank was necessary to achieve a steady flow through the reactors (for this same reason, the hydraulic residence time in the holding tank in the field treatability study is unknown). Irregular flow conditions could be harmful to a biological system. For the permanent treatment system, a flow-regulating holding tank may be necessary if unsteady flow conditions are expected.

Both pea gravel and NOR-PAC media performed adequately as substrate. Primary advantages of pea gravel include cost effectiveness and availability. The NOR-PAC media, although more expensive (\$71.88 per cubic foot), provided several advantages. Due to the higher porosity of NOR-PAC, a smaller reactor volume is required to achieve

a similar pore volume (hence the different reactor sizes used for the Phase 2 study). In theory, the higher porosity also facilitates venting of gasses that are generated within the reactor. NOR-PAC is available as sinking or floating media (i.e., specific gravity >1 or <1). As such, either of these, or a combination thereof, could be used to control settlement. As a final note, the NOR-PAC polypropylene packing media selected for the study is 5/8-inch. The media is available in other sizes that may be more appropriate for a larger scale field treatment system.

6.2 Inoculation and Carbon Source

Inoculation of the reactors followed a “safe” approach, using multiple sources of potential nitrate reducing bacteria. Inoculum consisted of (1) 5 gallons of activated sludge, collected from the aeration basin of the Drake Water Reclamation Facility in Fort Collins and (2) 1 kg of soil collected from the DG, which had presumably been in contact with high-nitrate water. The inculm was mixed with 1.6 percent methanol, 0.5 oz. yeast energizer, and approximately 125 g Na₂HPO₄ (nutrients were not added on a continuous basis, but were added at the beginning to initiate biological activity). This mixture was then poured into each reactor via a port near the upstream end. The quantity of inoculum added was approximately one-tenth of the total reactor pore volume. The inoculum was circulated for four days to improve distribution of inoculum and allow microbes to become established.

Technical-grade methanol (99% purity) performed adequately as a carbon source. Although the target methanol injection rate was 2 percent, the actual rate achieved was approximately 1.6 percent and fluctuated notably. The required methanol injection rate is related to the influent loading of nitrate (and other potentially biologically reducible constituents, such as uranium). At this injection rate, methanol performed satisfactorily, even under the higher nitrate concentration present in the DG water. As a design consideration, distributing methanol throughout the reactor requires that the methanol be well-mixed with the reactor influent. For the field treatability study, methanol was injected into the influent flow line well upstream of the reactor to provide adequate mixing time. However, biofouling was noted in the injection line downstream of the methanol injection point, indicating that biological activity initiated upstream of the reactors. To achieve adequate mixing with minimal biofouling, this could perhaps be resolved by including a mixing cell, constructed of glass (or other material that is unlikely to function as biological substrate), immediately upstream of the reactor inlet. Finally, methanol flammability and volatility should be considered in planning of storage and handling.

6.3 Reactor Performance Notes

Tracer studies were conducted to monitor the residence time in the field reactors. At a flow rate of 50 mL/min, the measured residence time in the reactors was approximately 37 hours ($\frac{1}{2}$ of the target residence time of 64 hours). Although shorter than the target residence time, near complete removal of nitrate was achieved. At a flow rate of 100 mL/min (actual residence time not measured), reactor performance declined significantly.

Although not targeted for treatment, uranium concentrations were substantially reduced by the reactors used in these studies. It may be possible to achieve satisfactory uranium removal in a single cell treatment system (i.e., similar to full-scale reactors used in these studies) rather than employing a second cell for uranium removal, as the SPPTS currently does.

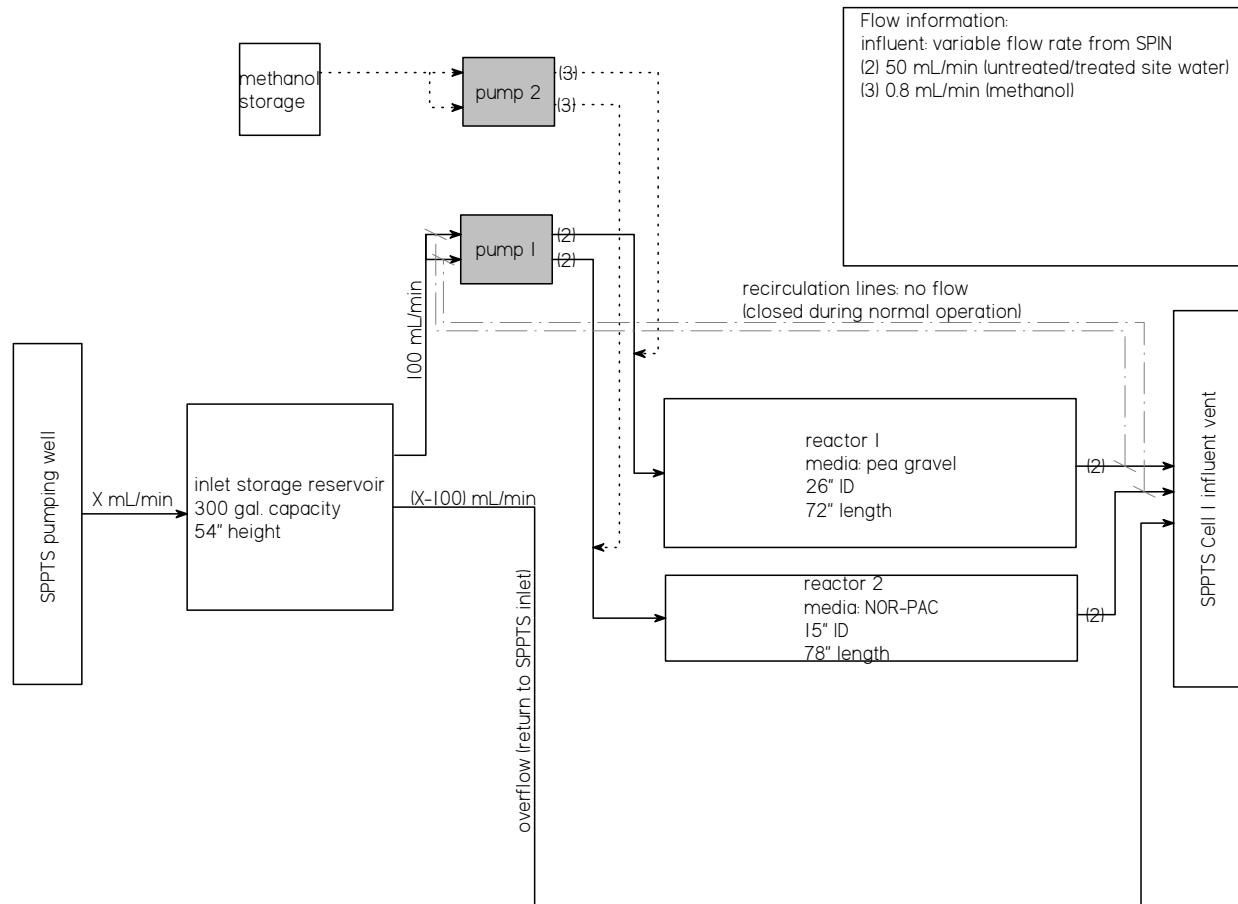
At the conclusion of the Phase 2 treatability study, some biofilm was noted on the substrate media, although it did not appear to inhibit flow. In a permanent system, it should be expected that biofilm will eventually build up to a degree that will impede flow and inhibit reactor performance. The Phase 2 treatability study did not generate data sufficient to predict rates of biofilm formation in a full-scale treatment system. Nevertheless, system design and operations planning should therefore anticipate replacement of substrate or removal of biofilm from substrate media.

6.4 Site Conditions

Site conditions should also be considered in final treatment system design. In particular, key site attributes include lack of utility infrastructure and storage facilities. For the laboratory study, a trailer was used for storage of materials and to protect sensitive system components (e.g., peristaltic pumps) from the elements. Power requirements were satisfied via solar power. The solar power supply was adequate for the Phase 2 treatability study (April to August 2007), but was not sufficient for Phase 1 (September to November 2006). For year round treatment, passive feed systems would be ideal.

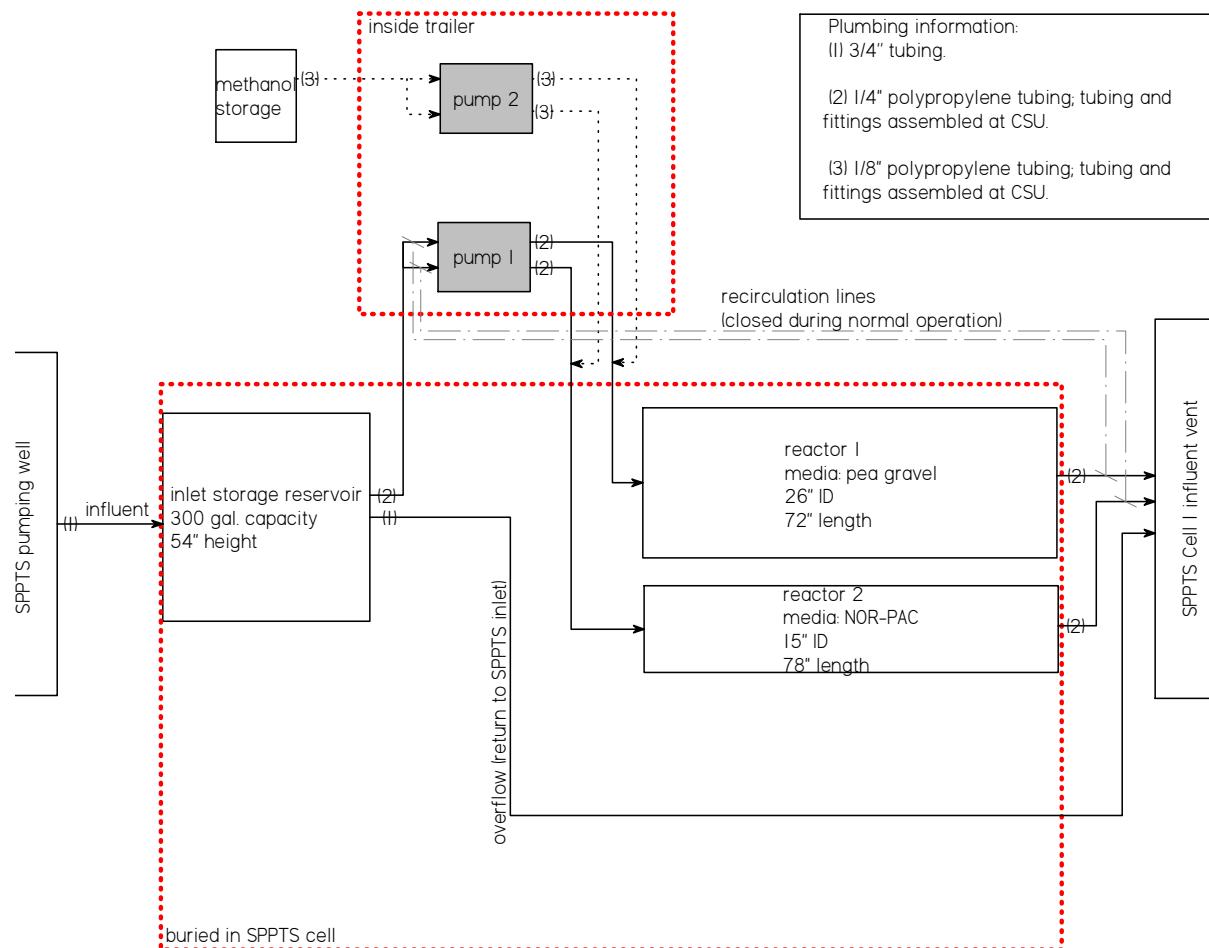
APPENDIX A: REACTOR DESIGN AND LAYOUT ILLUSTRATIONS

System Layout 1: Flow Information



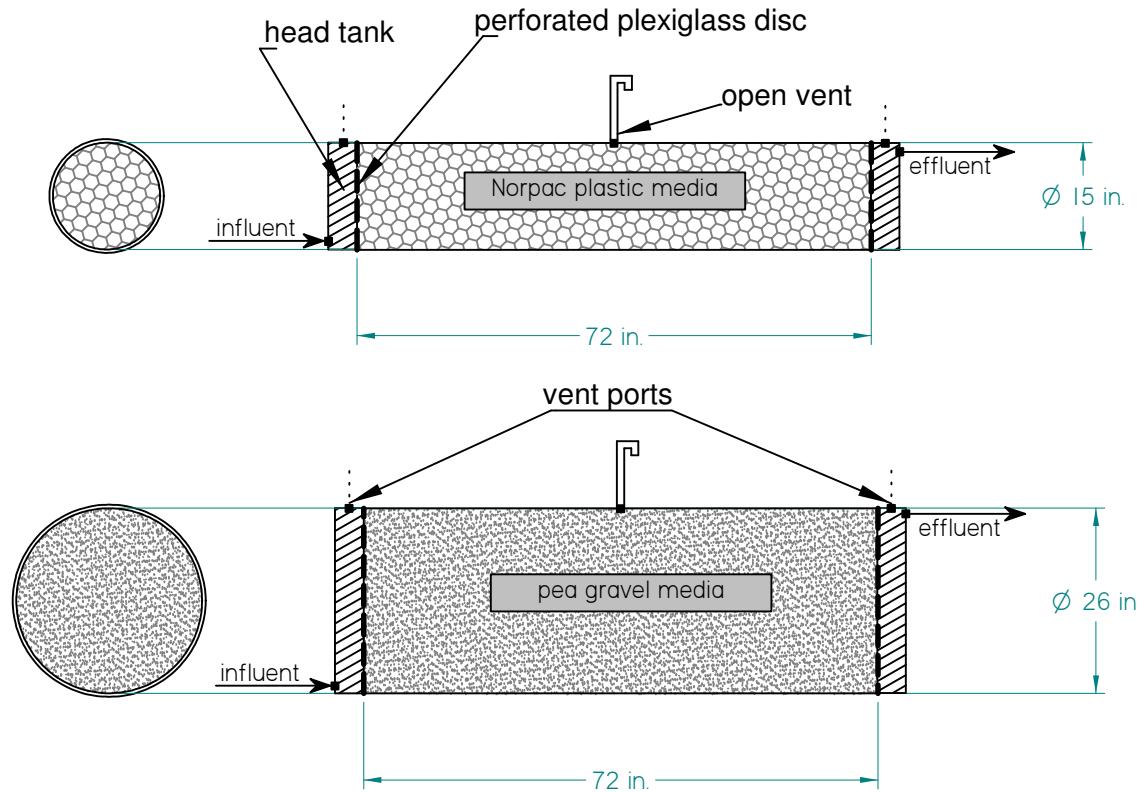
Note: All flow routed back into SPPTS Cell 1 to ensure adequate treatment for nitrate and uranium.

System Layout 2: Plumbing Information



Note: All flow routed back into SPPTS Cell 1 to ensure adequate treatment for nitrate and uranium

Reactor Design Schematic



Notes: (1) dimensions refer to inside of reactor; (2) open vent (near center) and vent ports (upstream and downstream head tanks) are included on both reactors, but only labeled on one; (3) the head tank refers to the open area at the end of each reactor used to distribute head pressure upstream and downstream of the reactor; (4) the perforated plexiglass disc is added to distribute flow throughout the entire cross section of media.

APPENDIX B: REACTOR INSTALLATION PHOTOS



Installation of the treatability reactors. Clockwise from upper left: 1) setting foundational support for reactors, 2) setting reactors, 3) wood chips covering reactors for temperature regulation, 4) reactors in place.

APPENDIX C: TRACER STUDY METHODS AND RESULTS

Tracer Study Methods

The average hydraulic residence time in each reactor was measured by injecting a spike of tracer in the influent and measuring the effluent concentration over time. The tracer used was Fluorescein, a fluorescent water-soluble dye. Effluent concentrations were monitored using a spectrometer and fiber optic cable. The spectrometer emits light through a fiber optic cable, which is submersed in the sample. Through this, the spectrometer measures the intensity of fluorescence over a range of wavelengths. The fluorescein dye fluoresces at a known wavelength (approximately 520 nano-meters); the fluorescein concentration can be monitored by recording intensity of fluorescence at that wavelength. For all studies, a total of 2 liters of water containing 100 mg/L of fluorescein (0.2 grams total fluorescein) were injected.

Laboratory Study

The objective of the laboratory study was to verify the ability of the reactor to achieve the target residence time of 64 hours. In particular, the study was conducted to validate the reactor design in the laboratory, where changes could easily be made to correct any apparent problems. City of Fort Collins tap water was used for the study. The study was conducted at a flow rate of 100 mL/min, or double the calculated flow rate needed to achieve target residence time. This was done to accelerate results and facilitate rapid deployment to the field. Under conditions used for the laboratory study, a residence time of 32 hours would be equivalent to a 64-hour residence time at a flow rate of 50 mL/min. Only the NOR-PAC reactor was tested in the laboratory. It was determined that testing the pea gravel reactor in the laboratory would not represent field conditions since the source of pea gravel for use in the field treatability studies had yet to be determined.

For the laboratory study, a flow-through cell was constructed such that the spectrometer could take continuous readings directly from the reactor effluent stream. The effluent tracer concentration was logged continuously by computer throughout the study. Results are discussed below.

Field Study

The objective of the field study was to resolve actual residence times in both reactors. The field study commenced on June 29, 2007 and continued for 7 days. Water obtained from the SPIN was used for the tracer study, and the water flow rate was 50 mL per minute (the same as was targeted for the actual treatability study).

In the field study, continuously logging effluent samples via computer would not allow for simultaneous testing of both reactors. As such, an auto-sampler (ISCO, Lincoln, NE) was used to collect samples from the effluent of both reactors. The auto-sampler collected samples (approximately 20-mL in volume) at 6-hour time intervals. The samples were returned to the laboratory and measured in a single batch at the conclusion of the study.

Tracer Study Results

Mean hydraulic residence times were estimated through two tracer studies. An initial tracer study was conducted in the laboratory, in which only the NOR-PAC reactor was evaluated. The second tracer study was conducted in the field; both reactors were evaluated as part of the field study. Results of both studies are discussed below.

Laboratory Study

As described in detail in the methods section, effluent tracer concentration is measured as intensity of fluorescence. To determine mean hydraulic residence time, effluent concentration data is plotted as normalized cumulative intensity (i.e., the sum of measured intensity values through the given time over the sum of all measured intensity values) versus time. The mean residence time is the time at which 50 percent of the cumulative measured intensity was detected in the effluent. As shown in Figure 14, the measured mean residence time was 34.2 hours. Corrected for flow rate (as discussed in the Methods section) the residence time is 68.4 hours, thus meeting the objective of achieving a residence time greater than 64 hours. Following this study the reactors were deployed to the field.

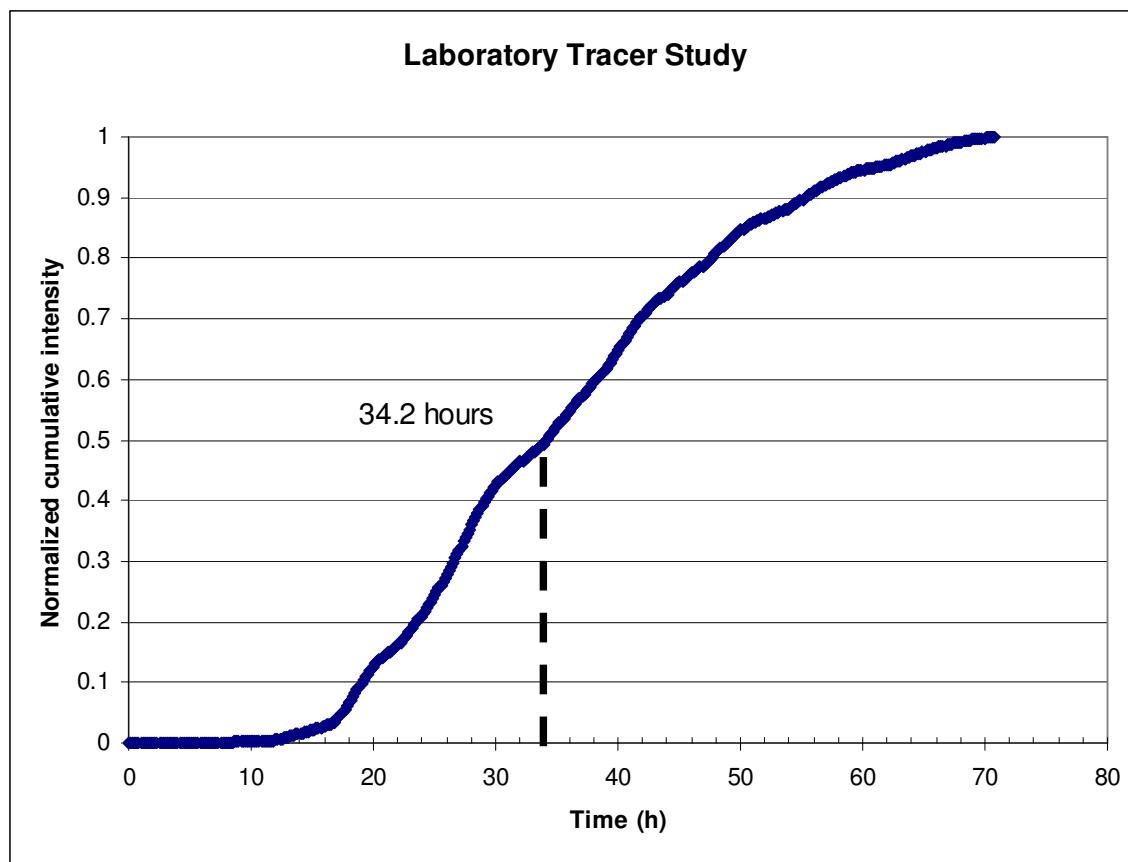


Figure 14. Laboratory tracer study results.

Field Study

Effluent tracer concentration versus time for the NOR-PAC reactor is shown in Figure 15. The effluent concentration shows an initial spike, peaking at approximately 24 hours, followed by a gradual declining period. In general, this follows the expected pattern for tracer flow through a column. Figure 16 shows normalized cumulative concentration (through 50 percent removal) versus time. From this, the mean residence time in the reactor is approximately 37 hours. This is approximately 54% of the residence time achieved in the laboratory (recalling that the residence time measured in the laboratory, when corrected for the flow rate differential, was 68 hours). This likely indicates that ideal plug flow conditions were no longer present in the reactors at the time of the tracer study. The field tracer study was conducted on June 29, approximately 6 weeks after the media was loaded into the reactors. During this time, conditions within the reactor may have changed due to (1) reduction of media volume in which flow occurs and (2) formation of selective flow paths. An effective reduction in reactor volume could result from gas build-up within the reactor that is not vented. Selective flow paths could form due to settlement of the reactor media. It is possible that a combination of these factors eventually led to a reduced mean residence time.

Effluent tracer concentration versus time for the pea gravel reactor is shown in Figure 17. The effluent concentration in the pea gravel reactor shows two spikes followed by a rapid decline in concentration and a very low level of tailing. This is not typical for column studies, and likely indicates some abnormal flow pattern in the reactor. The actual cause of this is not certain, but our hypothesis is that this is due to both (1) development of preferential flow paths due to media settlement and (2) gas build-up within the reactors causing further flow-path restrictions. The two peaks may indicate two primary flow pathways: through the open channel and through the gravel media. Figure 18 shows normalized cumulative concentration (through 50 percent removal) versus time. From this, the mean residence time in the reactor is approximately 37 hours. This is similar in magnitude to that measured in the NOR-PAC reactor, but significantly below that measured in the laboratory study (note that the gravel reactor was not tested in the laboratory). This seems to indicate that selective flow patterns are present in the reactor.

A mass balance was conducted for both reactors. The total mass of tracer injected into each reactor was 0.2 grams. Recovered tracer mass, calculated by integrating the area under the curve of concentration versus time, was 0.17 grams from the NOR-PAC reactor and 0.19 grams from the pea gravel reactor. These mass balance values indicate that most of the tracer was indeed recovered from both reactors over the period in which samples were collected and analyzed for tracer concentration. From this, it does not appear that apparent residence times are biased by ending the study prematurely.

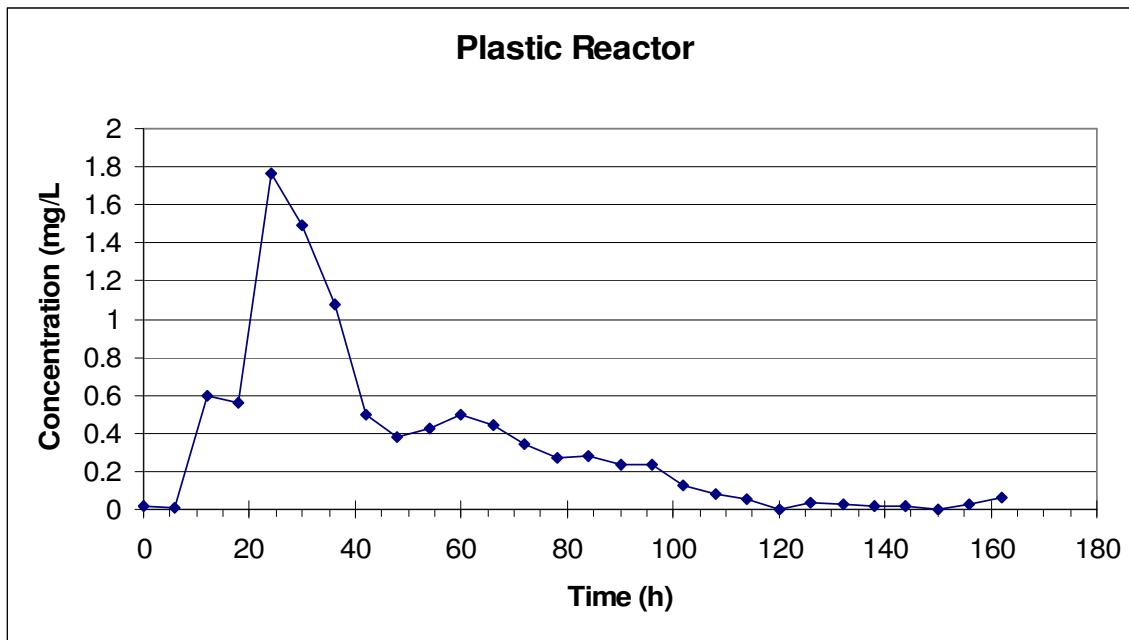


Figure 15. Effluent tracer concentration versus time for the reactor containing NOR-PAC media.

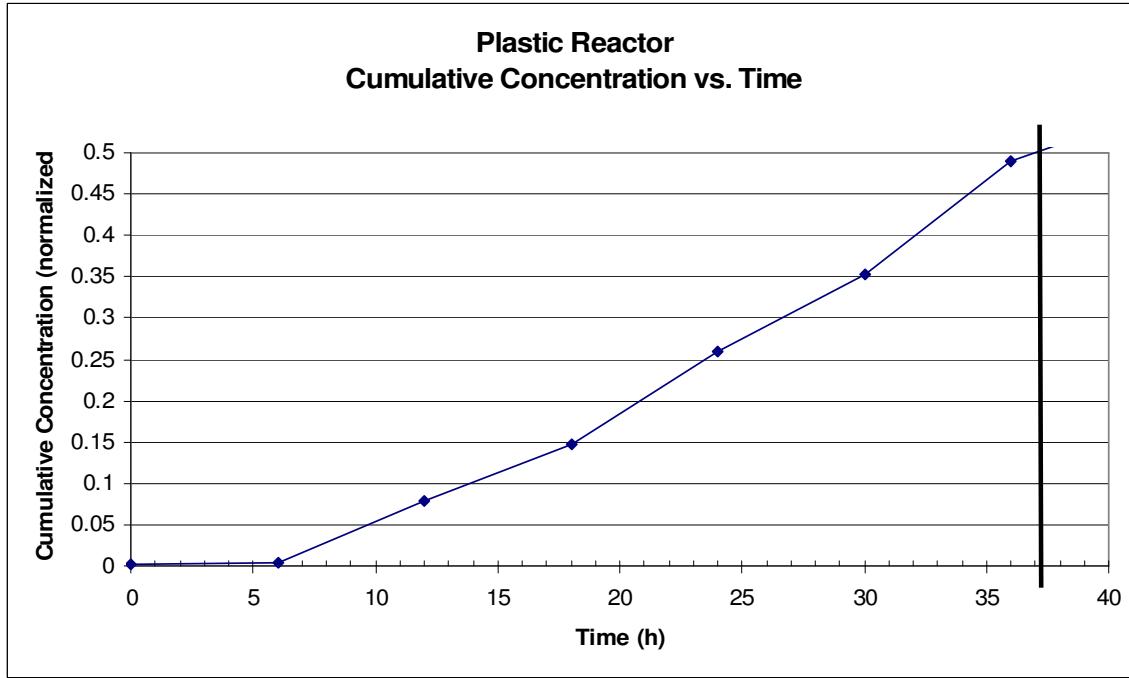


Figure 16. Normalized cumulative concentration versus time for the reactor containing NOR-PAC media.

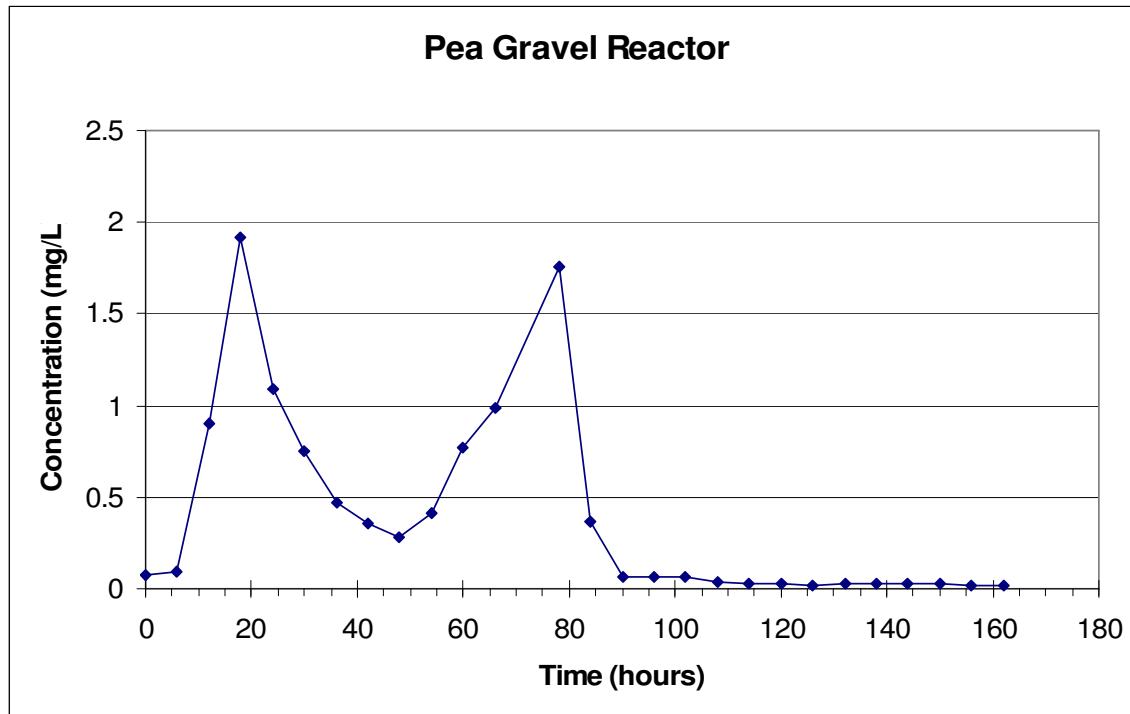


Figure 17. Effluent tracer concentration versus time for the reactor containing pea gravel.

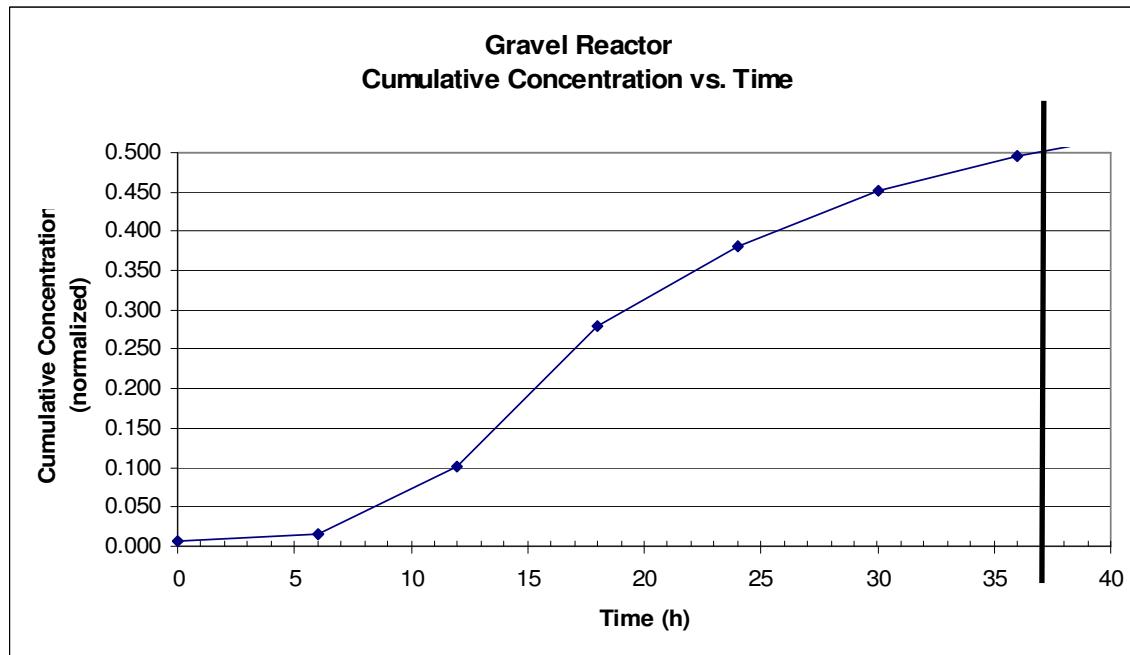


Figure 18. Normalized cumulative concentration versus time for the reactor containing pea gravel.

APPENDIX D: PHYSICAL PARAMETER MEASUREMENTS

Physical Parameters: SPIN study

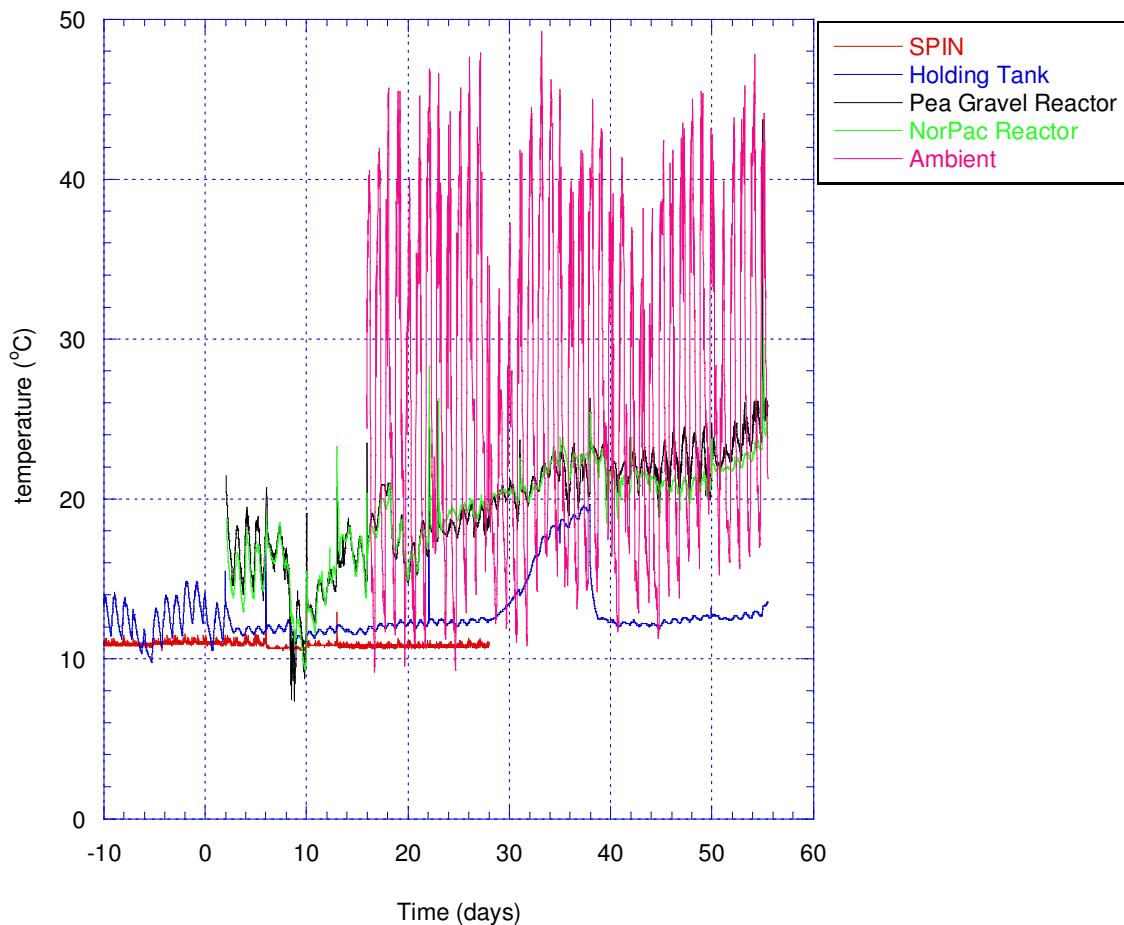


Figure D1 (top). Temperature data collected during the experiment using the SPIN source. Plot includes data collected prior to initiation of the experiment (prior to day 14) in the SPIN and holding tank. Also included is ambient (air) temperature data using an unshielded thermistor. Note: extended temperature increase measured in the holding tank (day 30-39) corresponds to low pumping rate from the SPIN to the holding tank; temperature measurement in the SPIN was discontinued when access to the downhole datalogger was lost.

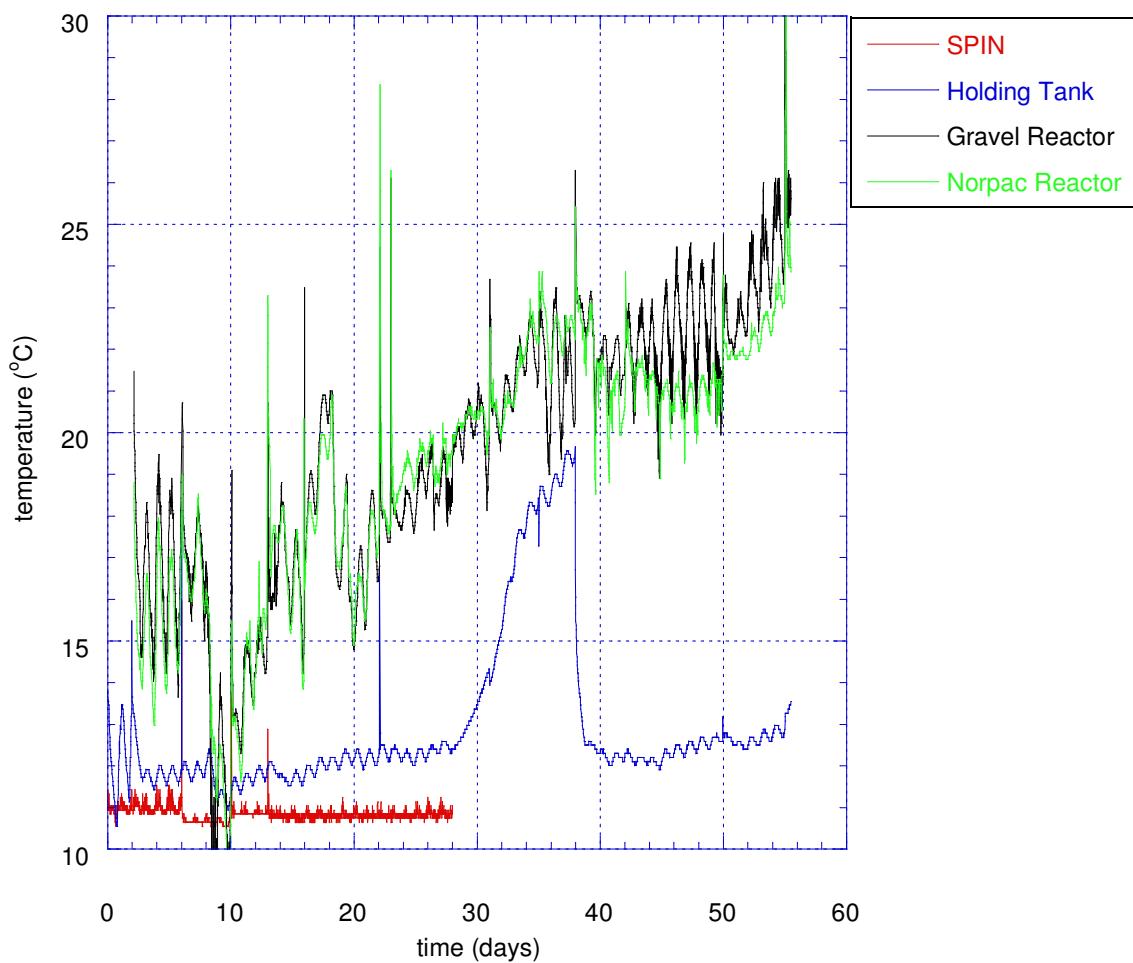


Figure D1 (bottom). Temperature data collected during the experiment using the SPIN source. This plot is an edited version of data plotted above (see Figure D1 (top)), with the pre-experiment data and the ambient temperature data removed. Note: extended temperature increase measured in the holding tank (day 30-40) corresponds to low pumping rate from the SPIN to the holding tank; temperature measurement in the SPIN was discontinued when access to the downhole datalogger was lost. Short term spikes in temperature correspond to times when datalogger was recovered for data retrieval.

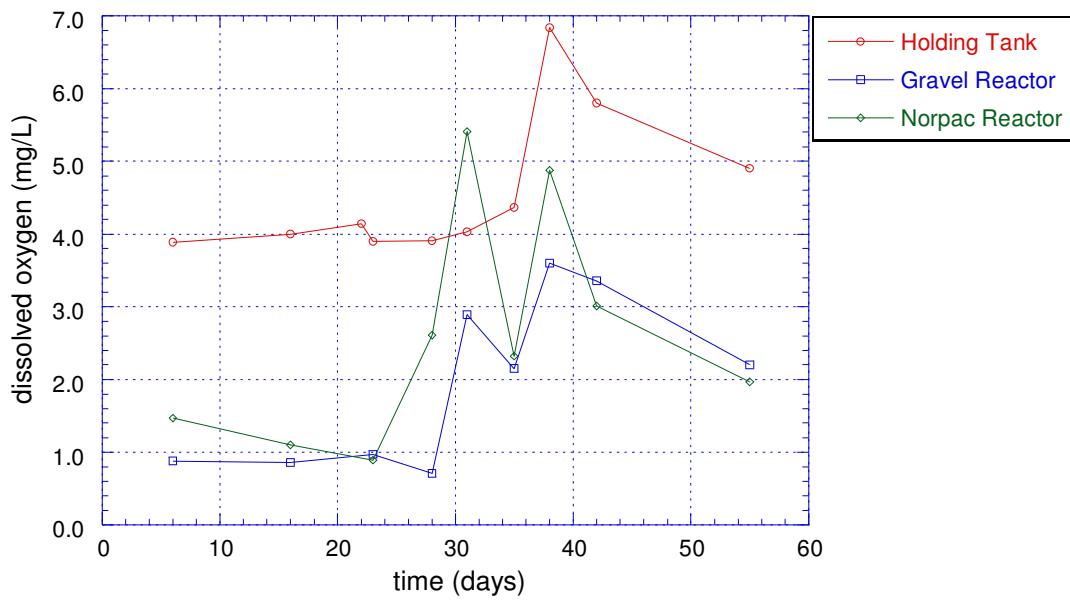


Figure D2. Dissolved oxygen concentrations measured in the influent and effluent from the test reactors using the SPIN source.

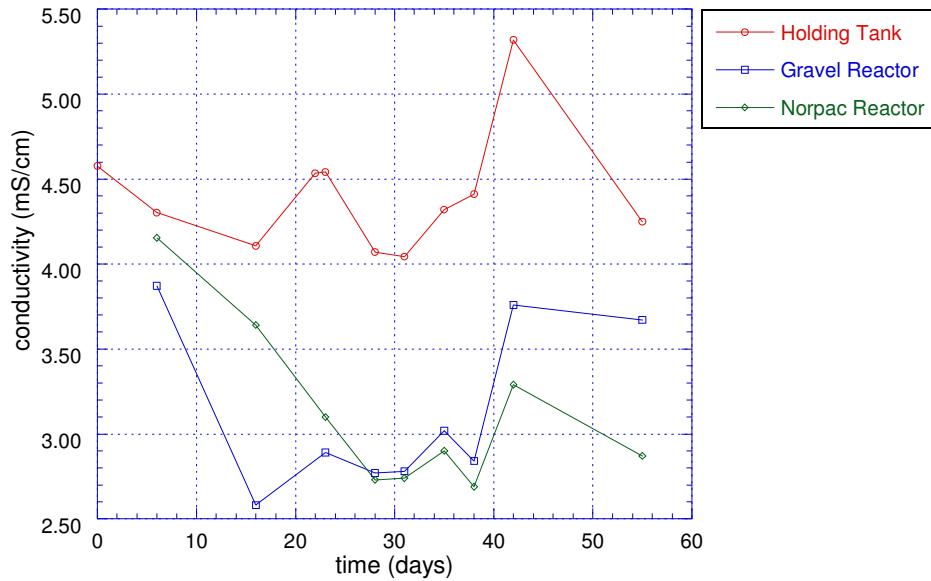


Figure D3. Specific conductivity measured in the influent and effluent from the reactors during the SPIN source portion of the testing.

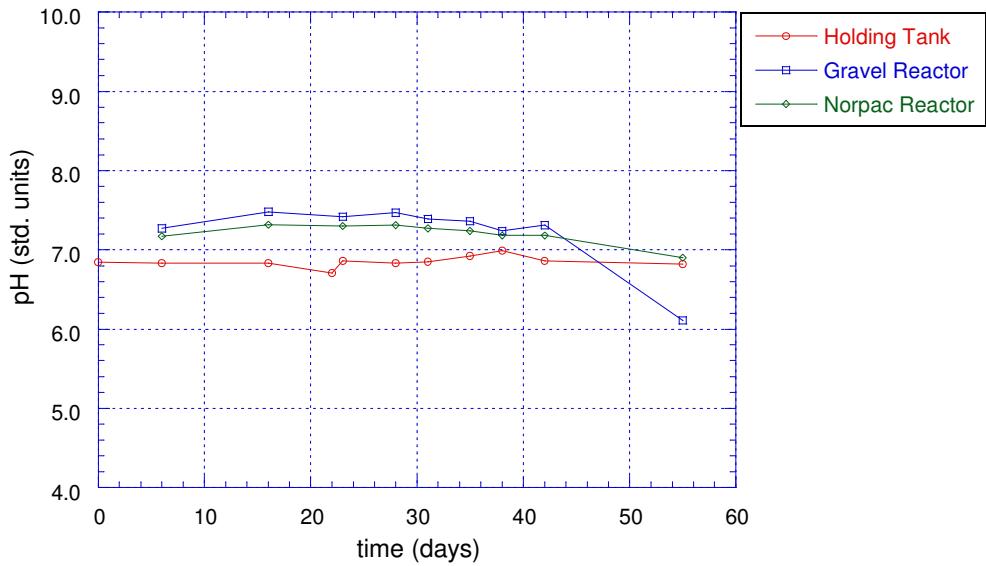


Figure D4. pH measured in the influent and effluent from the reactors during the SPIN source portion of the testing.

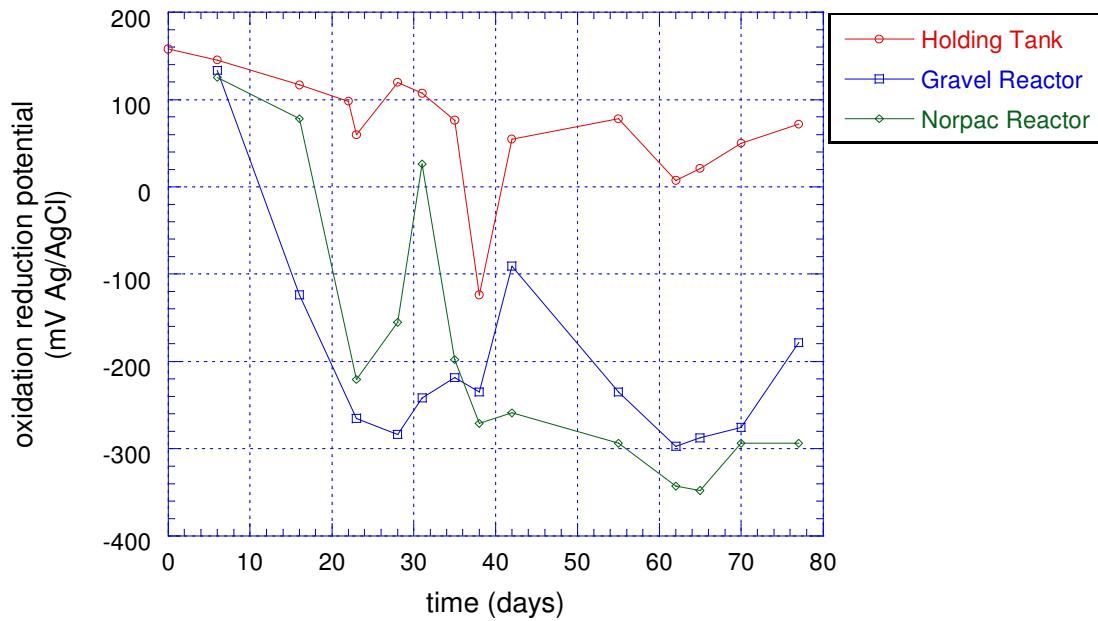


Figure D5. Oxidation reduction potential (ORP) measured in the influent and effluent from the reactors during the SPIN source portion of the testing.

Physical Parameters: DG Study

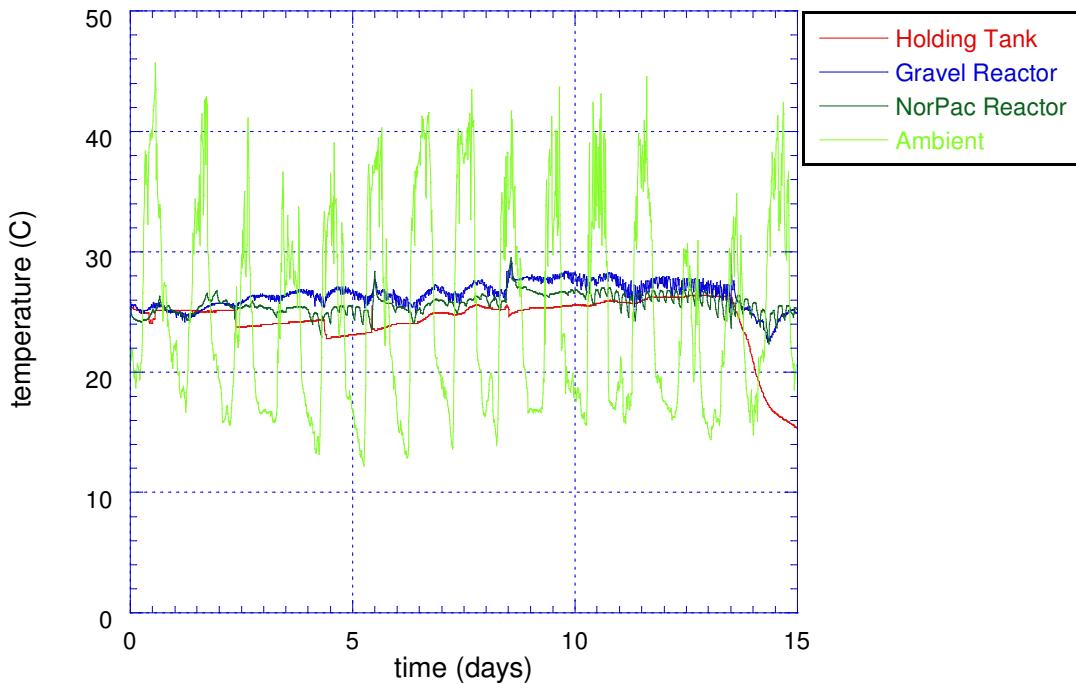


Figure D6. Temperature measured in the influent and effluent from the reactors during the DG source portion of the testing. Also included is ambient air temperature for comparison.

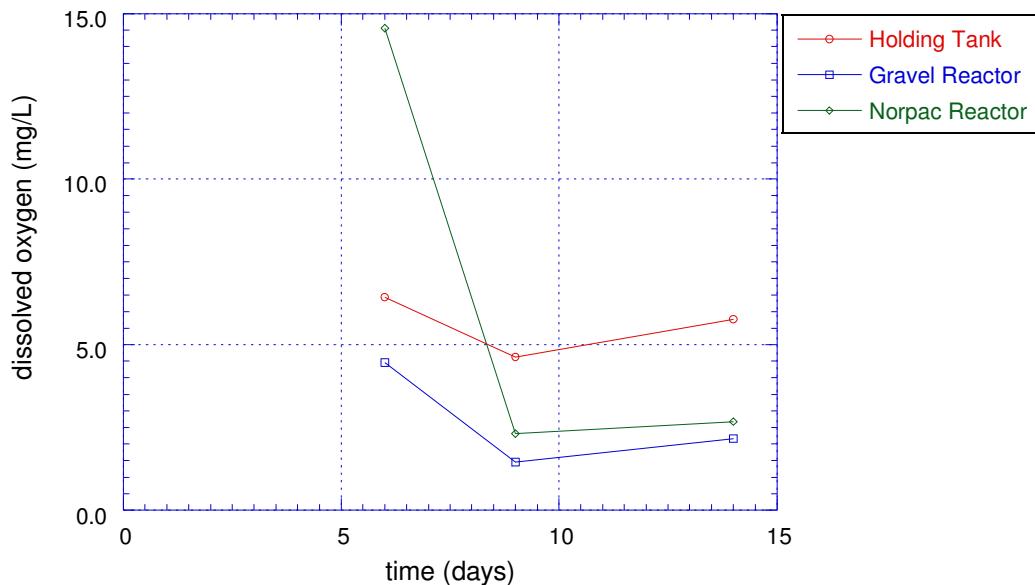


Figure D7. Dissolved oxygen concentration measured in the influent and effluent from the reactors during the DG source portion of the testing.

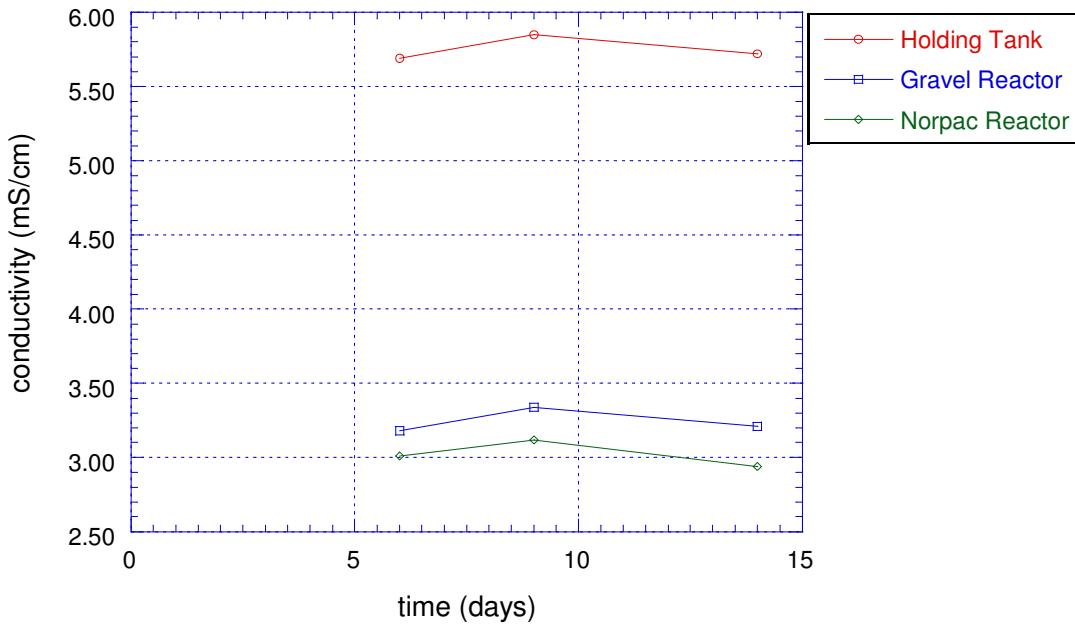


Figure D8. Conductivity measured in the influent and effluent from the reactors during the DG source portion of the testing

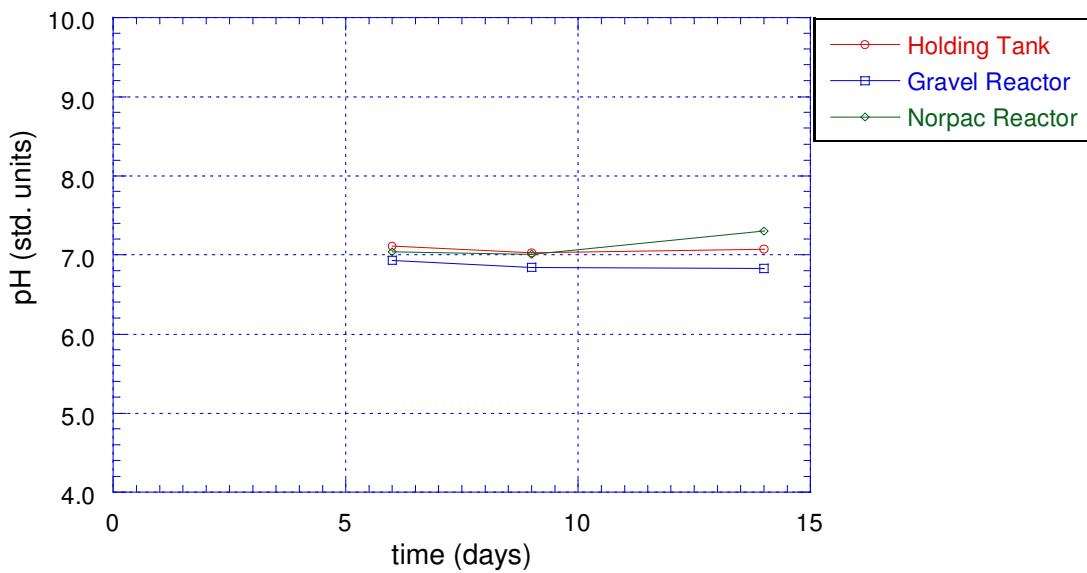


Figure D9. pH measured in the influent and effluent from the reactors during the DG source portion of the testing

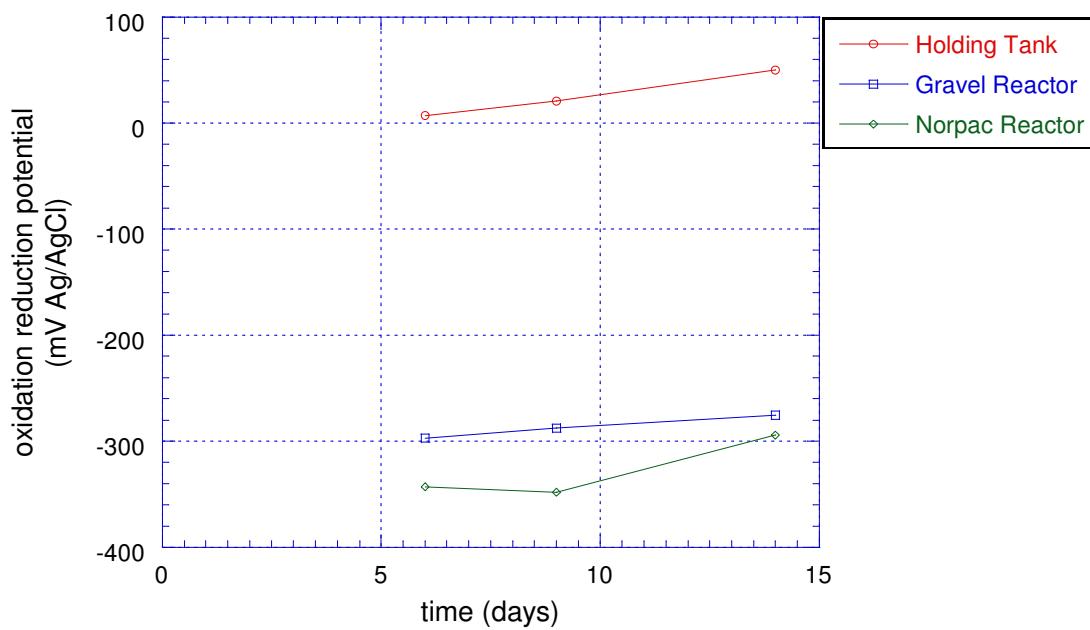
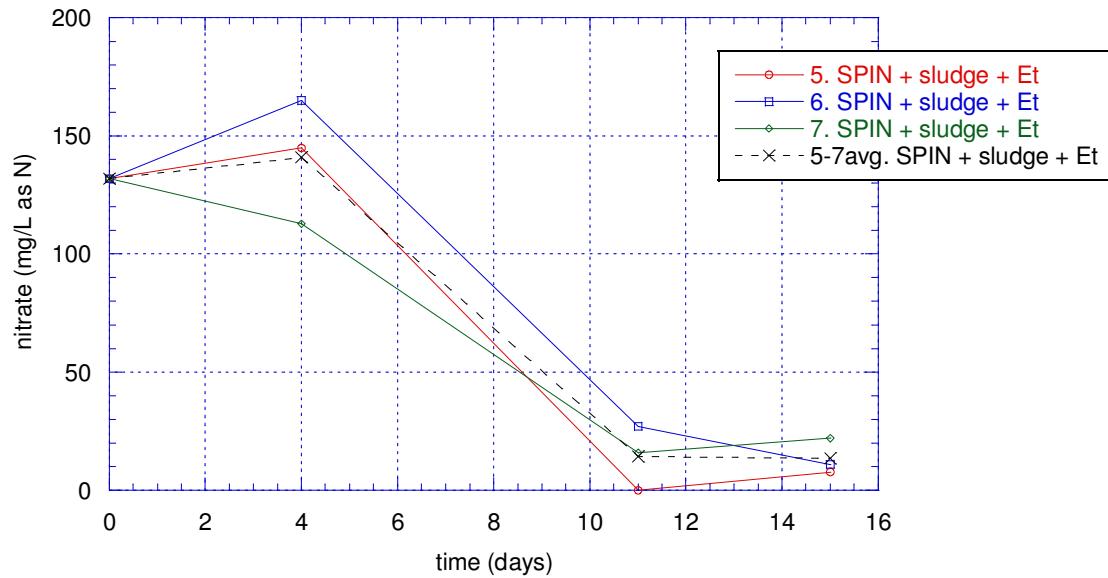


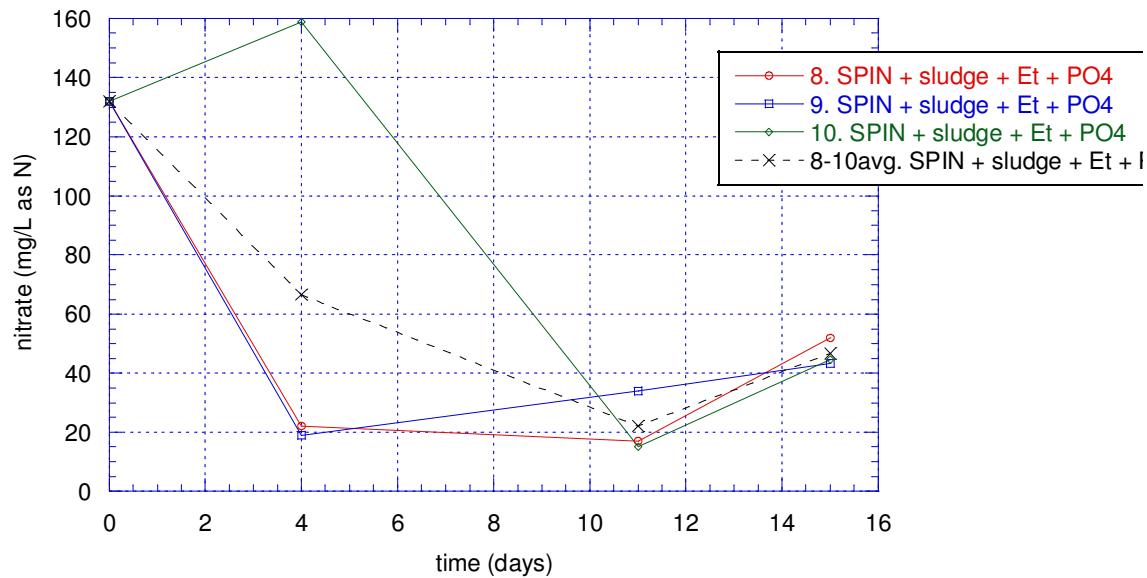
Figure D10. Oxidation reduction potential (ORP) measured in the influent and effluent from the reactors during the DG source portion of the testing

APPENDIX E: GRAPHICS FROM TRIPPLICATE BATCH REACTORS

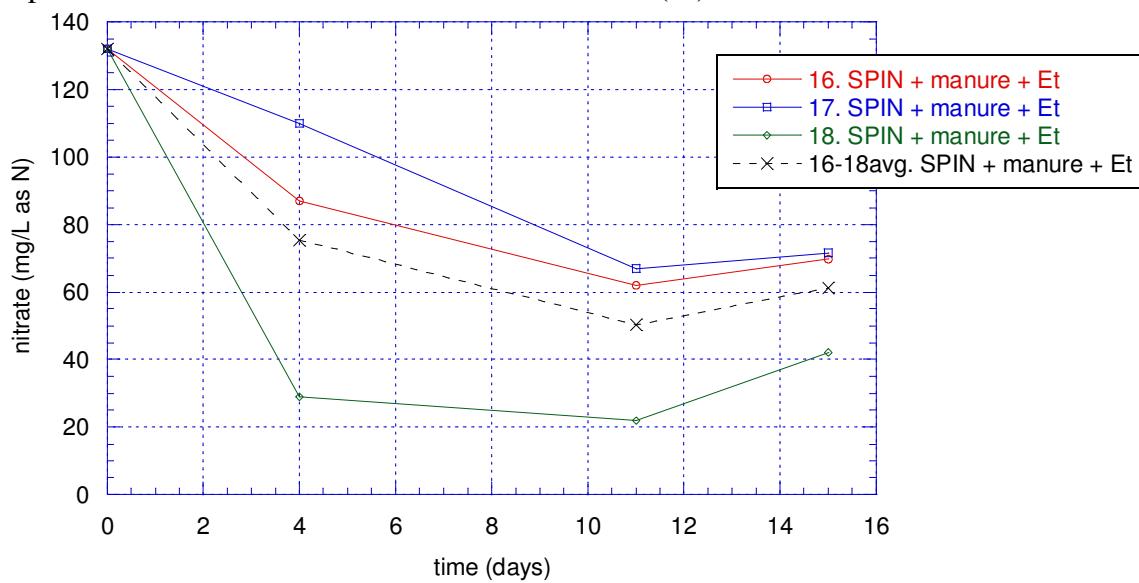
Triplicate reactors 5-7: SPIN water + sludge + ethanol (Et)



Triplicate reactors 8-10: SPIN + sludge + ethanol (Et) + phosphate (PO₄)



Triplicate reactors 16-18: SPIN + manure + ethanol (Et)



Triplicate reactors 22-24: DG + sludge + ethanol (ET) + phosphate (PO₄) + yeast energizer (YE)

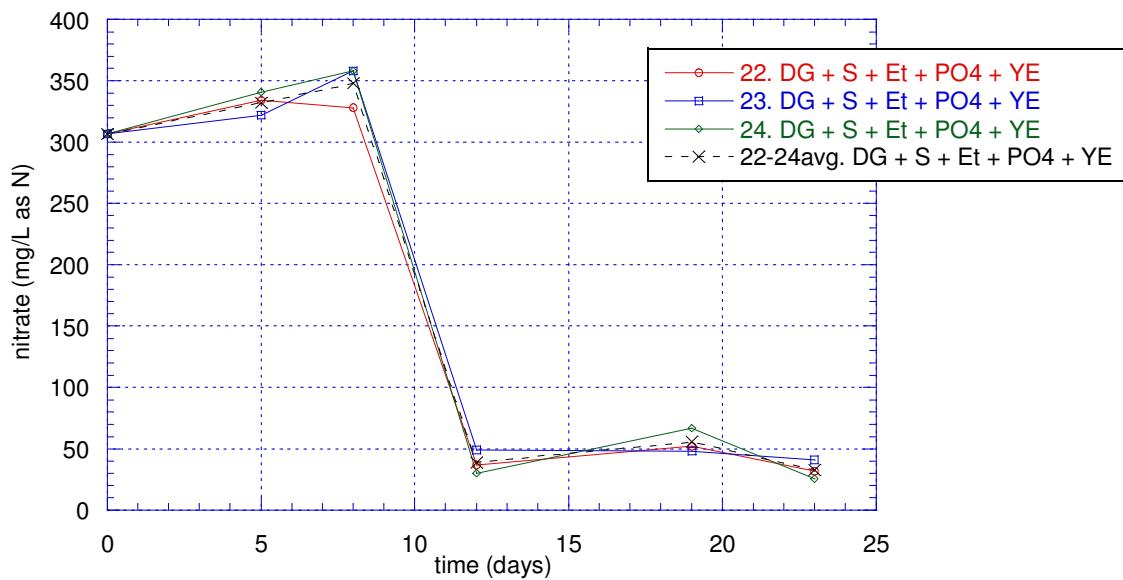


Table F-1. Nitrate concentrations (mg/L as N) for triplicate reactors, with calculated averages and standard deviations.

	3/21/07	3/26/07	3/29/07	4/2/07	4/9/07	4/13/07
5. SPIN + sludge + Et			132	145	0	7.8
6. SPIN + sludge + Et			132	165	27	11
7. SPIN + sludge + Et			132	113	16	22
	Avg.:	132	141	14	14	
	St.Dev.:	0	26	14	7	
8. SPIN + sludge + Et + PO4			132	22	17	52
9. SPIN + sludge + Et + PO4			132	19	34	43.2
10. SPIN + sludge + Et + PO4			132	159	15	44.6
	Avg.:	132	67	22	47	
	St.Dev.:	0	80	10	5	
16. SPIN + manure + Et			132	87	62	69.8
17. SPIN + manure + Et			132	110	67	71.6
18. SPIN + manure + Et			132	29	22	42.2
	Avg.:	132	75	50	61	
	St.Dev.:	0	42	25	16	
22. DG + S + Et + PO4 + YE	307	334	328	37	52	31.8
23. DG + S + Et + PO4 + YE	307	322	358	49	48	41
24. DG + S + Et + PO4 + YE	307	341	358	30	67	25.6
	Avg.:	307	332	348	39	33
	St.Dev.:	0	10	17	10	8

APPENDIX F: DATA GENERATED THROUGHOUT STUDY

Data collected from the SPIN on March 29, 2007 used the geochemical speciation analysis.

EXECUTIVE SUMMARY - Detection Highlights

D7C300147

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
CSU-SPT-03 03/29/07 15:00 001				
Barium	220 J	10	ug/L	SW846 6010B
Boron	110	100	ug/L	SW846 6010B
Calcium	300000 J	200	ug/L	SW846 6010B
Cadmium	1.0 B	5.0	ug/L	SW846 6010B
Iron	29 B	100	ug/L	SW846 6010B
Potassium	7700	3000	ug/L	SW846 6010B
Lithium	170	10	ug/L	SW846 6010B
Magnesium	80000 J	200	ug/L	SW846 6010B
Manganese	26	10	ug/L	SW846 6010B
Sodium	400000	1000	ug/L	SW846 6010B
Nickel	9.1 B	40	ug/L	SW846 6010B
Silica	16000	1100	ug/L	SW846 6010B
Silicon	7300	500	ug/L	SW846 6010B
Strontium	2400 J	10	ug/L	SW846 6010B
Titanium	1.8 B	10	ug/L	SW846 6010B
Uranium	34 B	60	ug/L	SW846 6010B
Zinc	50 J	20	ug/L	SW846 6010B
Zirconium	3.6 B	15	ug/L	SW846 6010B
Chloride	530 Q	150	mg/L	SW846 9056
Fluoride	0.77 B,G	2.0	mg/L	SW846 9056
Sulfate	150 Q	25	mg/L	SW846 9056
Nitrate	220 Q	25	mg/L	SW846 9056
Bromide	1.0 G	0.40	mg/L	SW846 9056
Nitrite	1.1 G	1.0	mg/L	SW846 9056

Data collected from the Holding Tank and test reactor effluent on July 23, 2007 during the SPIN testing.

EXECUTIVE SUMMARY - Detection Highlights

0702302003

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
HOLDING TANK 07/23/07 13:30 001				
Uranium	11	2.0	ng/L	SW846 8020
Total Suspended Solids	4.8	4.0	mg/L	NCARW 160.2
Total Organic Carbon	6.9	1.0	ng/L	NCARW 415.1
Chloride	510 Q	150	ng/L	SW846 8016
Fluoride	0.78 B,G	2.0	ng/L	SW846 8016
Sulfate	180 Q	25	ng/L	SW846 8016
Nitrate	280 Q	25	ng/L	SW846 8016
Boronide	1.2 G	0.40	ng/L	SW846 8016
Nitrite	0.53 B,G	1.0	ng/L	SW846 8016
Ammonia as N	0.025 B	0.10	ng/L	NCARW 350.1
PLASTIC 07/23/07 13:30 002				
Uranium	12	2.0	ng/L	SW846 8020
Total Suspended Solids	22 G	5.0	mg/L	NCARW 160.2
Total Organic Carbon	7500 Q	400	ng/L	NCARW 415.1
Chloride	510 Q	150	ng/L	SW846 8016
Fluoride	0.21 B,G	2.0	ng/L	SW846 8016
Sulfate	50 Q	10	ng/L	SW846 8016
Boronide	1.1 G	0.40	ng/L	SW846 8016
Ammonia as N	0.53	0.10	ng/L	NCARW 350.1
GRANULE 07/23/07 13:30 003				
Uranium	3.5	1.0	ng/L	SW846 8020
Total Suspended Solids	42 G	10	mg/L	NCARW 160.2
Total Organic Carbon	3500 Q	100	ng/L	NCARW 415.1
Chloride	550 Q	150	ng/L	SW846 8016
Fluoride	0.23 B,G	2.0	ng/L	SW846 8016
Sulfate	1.5 B,G	10	ng/L	SW846 8016
Nitrate	2.5 G	1.0	ng/L	SW846 8016
Boronide	4.8 G	0.40	ng/L	SW846 8016
Ammonia as N	0.27	0.10	ng/L	NCARW 350.1

SPL Denver is a part of Seven Test Laboratories, Inc.

Nitrate results collected from the SPPTS treatability test reactors.

	Nitrate (mg/L as NO₃)		
	Influent (mg/L)	Plastic (mg/L)	Gravel (mg/L)
5/29/07	1590	1531	1564
5/31/07	1501	1513	1413
6/4/07	1486	1085	943
6/8/07	1435.75	1114.316	747.606
6/11/07	1120.031	869.492	116.203
6/14/07	1149.442	719.564	nd
6/21/07	1252.131	12.348	0.819
6/26/07	1234.893	12.831	6.846
6/29/07	1245.76	56.142	0
7/3/07	1251.072	0.839	94.481
7/10/07	1431.933	0.831	36.606
7/18/07	1255.75	0.5	0.5
7/23/07	1204.318	0.5	0.5
7/23/07	1216.08	nd	nd
7/23/07	1211.762	nd	nd
7/23/07	1188.136	nd	nd
7/23/07	1201.294	nd	nd
7/24/07	2143.859	no meas.	no meas.
7/27/07	2196.758	nd	43.964
7/30/07	2085.5	nd	nd
8/2/07	2245.922	nd	nd
8/7/07	2350.06	nd	1.447
8/7/07	2363.575	nd	1.977
8/7/07	2405.025	no meas.	no meas.
8/7/07	2387.576	no meas.	no meas.
8/14/07	1082.234	0.808	0.767
8/22/07	1096.06	22.272	204.032
8/29/07	1100	473.174	157

Physical parameters collected during the SPPTS treatability study

Date:	Temperature C	Conductivity SpCond mS/cm	Cond mS/cm	DO %	Dissolved Oxygen DO mg/L	DO ch	PH	ORP	Alkalinity
05/25/07 Holding Tank	13.72	4.576		152	54.3	6.84	158		
06/04/07 Holding Tank	11.86	4.304		36.4	3.89	36.9	6.83	145.5	
6/14/2007 Holding Tank	11.69	4.106	3.062	37.4	4	37	6.83	117	
6/20/2007 Holding Tank	12.27	4.535	3.433	39.2	4.14	36	6.71	98	
6/21/2007 Holding Tank	12.5	4.542	3.458	37.2	3.9	36	6.86	60	
6/26/2007 Holding Tank	12.47	4.074	3.099	37.1	3.905	35.5	6.825	119.5	
6/29/2007 Holding Tank	13.61	4.043	3.163	39.3	4.03	36	6.85	107	
7/3/2007 Holding Tank	15.73	4.32	3.55	44.63	4.37	37	6.92	76.33	
7/6/2007 Holding Tank	15.83	4.4105	3.6375	70	6.835	40	6.99	-124	
7/10/2007 Holding Tank	12.22	5.3215	4.022	55.05	5.8	40	6.855	54.5	
7/23/2007 Holding Tank	12.86	4.26023	3.26632	47.0323	4.9	40	6.82	78	
7/30/2007 Holding Tank	22.71	5.689	5.4405	75.9	6.435	48	7.11	7	
8/2/2007 Holding Tank	23.49	5.845	5.68	55.4	4.63	44	7.03	21	
8/7/2007 Holding Tank	25.22	5.718	5.742	71.4	5.77	45	7.07	50	
8/14/2007 Holding Tank	19.45	4.372	3.909	64.43	5.84	44.33	6.8967	71.67	
8/22/2007 Holding Tank	13.41	4.3545	3.3905	38.35	3.945	40	6.9	56	
8/29/2007 Holding Tank	13.25	4.449	3.451	38.1	3.94	40.5	6.87	46	
9/11/2007 Holding Tank	12.77	4.7575	3.646	38.65	4.035	38	6.8	66	
Norpak Eff.									258 mg/L as CaCO ₃
Date:	Temperature C	Conductivity SpCond mS/cm	Cond mS/cm	DO %	Dissolved Oxygen DO mg/L	DO ch	PH	ORP	Alkalinity
05/25/07 Norpak eff.									
06/04/07 Norpak eff.	17.41	4.154		15.8	1.47	36.9	7.17	125.2	
6/14/2007 Norpak eff.	15.12	3.637	2.951	11.1	1.1	35	7.32	78	
6/20/2007 Norpak eff.									
6/21/2007 Norpak eff.	18.44	3.102	2.713	9.6	0.89	34	7.3	-221	
6/26/2007 Norpak eff.	19.74	2.7335	2.4585	28.75	2.605	34.5	7.305	-155	
6/29/2007 Norpak eff.	20.86	2.738	2.522	61.1	5.41	38	7.27	26	
7/3/2007 Norpak eff.	23.90	2.90	2.84	27.7	2.32	36	7.24	-198	
7/6/2007 Norpak eff.	27.3	2.6945	2.813	62	4.88	39	7.18	-271	
7/10/2007 Norpak eff.	23.17	3.292	3.177	35.6	3.01	38	7.18	-259	
7/23/2007 Norpak eff.	25.32	2.87	2.887	24.2	1.97	99	6.9	-294	
7/30/2007 Norpak eff.	26.9	3.008	3.117	184	14.56	77	7.04	-343	
8/2/2007 Norpak eff.	26.58	3.118	3.213	29.1	2.32	42	7.01	-348	
8/7/2007 Norpak eff.	26.39	2.938	3.016	33.5	2.67	40	7.3	-294	
8/14/2007 Norpak eff.	18.863	2.9863	2.636	25	2.303	40	7.01	-294	
8/22/2007 Norpak eff.	20.81	3.2835	3.021	39.75	3.52	40	7.15	-275.5	
8/29/2007 Norpak eff.	20.65	3.902666667	3.578666667	28.7	2.546666667	38	7	-185.333333	
9/11/2007 Norpak eff.	18.82	4.7305	4.1725	26.15	2.4	37	6.835	-7	
Pea Gravel Eff.									
Date:	Temperature C	Conductivity SpCond mS/cm	Cond mS/cm	DO %	Dissolved Oxygen DO mg/L	DO ch	PH	ORP	Alkalinity
05/25/07 Pea Gravel eff.									
06/04/07 Pea Gravel eff.	17.33	3.873		9.3	0.88	35.9	7.27	133.3	
6/14/2007 Pea Gravel eff.	15.41	2.582	2.109	8.7	0.86	35	7.48	-124	
6/20/2007 Pea Gravel eff.									
6/21/2007 Pea Gravel eff.	18.12	2.894	2.514	10.3	0.97	34	7.42	-265	
6/26/2007 Pea Gravel eff.	18.98	2.77	2.4515	7.7	0.71	33	7.47	-283.5	
6/29/2007 Pea Gravel eff.	20.77	2.78	2.555	32.6	2.89	36	7.39	-242	
7/3/2007 Pea Gravel eff.	21.77	3.015	2.83	24.7	2.15	35.33	7.36	-218.67	
7/6/2007 Pea Gravel eff.	21.54	2.842	2.6545	41.1	3.595	38	7.24	-235	
7/10/2007 Pea Gravel eff.	21.83	3.76	3.54	38.8	3.36	37.33	7.31	-91	
7/23/2007 Pea Gravel eff.	25.55	3.6715	3.71	27.15	2.195	35.5	6.11	-235	
7/30/2007 Pea Gravel eff.	26.09	3.178	3.2445	55.6	4.465	45.5	6.93	-297	
8/2/2007 Pea Gravel eff.	27.17	3.336	3.475	18.567	1.46	40.33	6.84	-287.67	
8/7/2007 Pea Gravel eff.	27.16	3.207	3.3395	27.55	2.165	40	6.825	-275.5	
8/14/2007 Pea Gravel eff.	19.18	3.976	3.534	29.567	2.7	40	5.94	-178.33	
8/22/2007 Pea Gravel eff.	22.835	4.101	3.9315	25.15	2.135	38.5	7.08	-283	
8/29/2007 Pea Gravel eff.	22.84	3.528	3.3825	16.3	1.385	38	7.04	-277	
9/11/2007 Pea Gravel eff.	21.985	4.603	4.338	28.25	2.44	37	7	-98.5	
									550 mg/L as CaCO ₃

date	SPIN	Holding Tank	Gravel Reactor	Norpac Reactor	Ambient
5/18/2007 0:12	10.85	13.46			
5/18/2007 0:12	11.04	13.46			
5/18/2007 0:12	10.85	13.46			
5/18/2007 0:12	10.85	13.46			
5/18/2007 0:13	10.94	13.56			
5/18/2007 0:13	10.85	13.65			
5/18/2007 0:13	10.85	13.65			
5/18/2007 0:13	11.04	13.37			
5/18/2007 0:14	10.94	13.37			
5/18/2007 0:14	10.94	13.37			
5/18/2007 0:14	11.04	13.56			
5/18/2007 0:14	10.94	13.37			
5/18/2007 0:15	11.04	13.37			
5/18/2007 0:15	10.94	13.27			
5/18/2007 0:15	10.85	13.27			
5/18/2007 0:15	10.94	13.27			
5/18/2007 0:16	10.85	13.27			
5/18/2007 0:16	10.85	13.37			
5/18/2007 0:16	11.04	13.37			
5/18/2007 0:16	10.94	13.27			
5/18/2007 0:17	10.94	13.37			
5/18/2007 0:17	10.94	13.37			
5/18/2007 0:17	10.85	13.27			
5/18/2007 0:17	10.94	13.27			
5/18/2007 0:18	11.04	13.27			
5/18/2007 0:18	10.85	13.17			
5/18/2007 0:18	11.14	13.17			
5/18/2007 0:18	10.85	13.08			
5/18/2007 0:19	10.85	13.08			
5/18/2007 0:19	11.04	13.08			
5/18/2007 0:19	10.85	12.98			
5/18/2007 0:19	10.85	12.88			
5/18/2007 0:20	10.94	12.88			
5/18/2007 0:20	10.85	12.79			
5/18/2007 0:20	10.94	12.69			
5/18/2007 0:20	10.85	12.59			
5/18/2007 0:21	10.85	12.59			
5/18/2007 0:21	11.04	12.5			
5/18/2007 0:21	10.85	12.5			
5/18/2007 0:21	10.85	12.4			
5/18/2007 0:22	10.94	12.4			
5/18/2007 0:22	10.85	12.3			
5/18/2007 0:22	10.85	12.21			
5/18/2007 0:22	10.94	12.21			
5/18/2007 0:23	10.85	12.21			
5/18/2007 0:23	10.85	12.11			
5/18/2007 0:23	10.85	12.11			
5/18/2007 0:23	10.85	12.01			
5/19/2007 0:00	10.94	12.01			
5/19/2007 0:00	10.85	11.92			
5/19/2007 0:00	10.85	11.92			
5/19/2007 0:00	10.94	11.82			
5/19/2007 0:01	10.94	11.82			
5/19/2007 0:01	10.85	11.82			
5/19/2007 0:01	10.94	11.82			
5/19/2007 0:01	10.85	11.72			
5/19/2007 0:02	10.85	11.72			
5/19/2007 0:02	10.85	11.72			
5/19/2007 0:02	10.85	11.63			
5/19/2007 0:03	10.94	11.63			
5/19/2007 0:03	10.85	11.53			
5/19/2007 0:03	10.85	11.53			
5/19/2007 0:03	10.85	11.53			
5/19/2007 0:04	10.85	11.53			
5/19/2007 0:04	10.94	11.43			
5/19/2007 0:04	10.85	11.43			
5/19/2007 0:04	10.85	11.43			
5/19/2007 0:05	10.94	11.43			
5/19/2007 0:05	10.85	11.33			
5/19/2007 0:05	10.85	11.33			
5/19/2007 0:05	10.94	11.33			
5/19/2007 0:06	10.85	11.33			
5/19/2007 0:06	10.85	11.33			
5/19/2007 0:06	10.94	11.33			
5/19/2007 0:06	10.94	11.33			
5/19/2007 0:06	10.85	11.72			
5/19/2007 0:07	10.85	11.82			
5/19/2007 0:07	10.94	12.01			
5/19/2007 0:07	10.85	12.11			
5/19/2007 0:07	10.85	12.21			
5/19/2007 0:08	10.94	12.5			
5/19/2007 0:08	10.85	12.59			
5/19/2007 0:08	11.04	12.59			
5/19/2007 0:08	10.94	12.88			
5/19/2007 0:09	10.85	12.98			

5/19/2007 0:09	11.24	13.08		
5/19/2007 0:09	10.94	13.17		
5/19/2007 0:09	10.85	13.27		
5/19/2007 0:10	11.14	13.37		
5/19/2007 0:10	10.94	13.46		
5/19/2007 0:10	10.85	13.46		
5/19/2007 0:10	11.04	13.56		
5/19/2007 0:11	10.94	13.56		
5/19/2007 0:11	10.85	13.56		
5/19/2007 0:11	10.94	13.65		
5/19/2007 0:11	10.85	13.46		
5/19/2007 0:12	10.85	13.27		
5/19/2007 0:12	10.94	13.56		
5/19/2007 0:12	10.94	13.75		
5/19/2007 0:12	10.94	13.75		
5/19/2007 0:13	11.14	13.75		
5/19/2007 0:13	10.94	13.65		
5/19/2007 0:13	10.85	13.85		
5/19/2007 0:13	11.04	13.85		
5/19/2007 0:14	10.94	13.75		
5/19/2007 0:14	10.94	13.94		
5/19/2007 0:14	11.04	13.94		
5/19/2007 0:14	10.85	13.75		
5/19/2007 0:15	11.24	13.65		
5/19/2007 0:15	10.94	13.65		
5/19/2007 0:15	10.85	13.56		
5/19/2007 0:15	11.04	13.65		
5/19/2007 0:16	11.14	13.85		
5/19/2007 0:16	10.94	13.75		
5/19/2007 0:16	11.24	13.65		
5/19/2007 0:16	10.94	13.65		
5/19/2007 0:17	10.85	13.56		
5/19/2007 0:17	11.14	13.65		
5/19/2007 0:17	10.94	13.56		
5/19/2007 0:17	10.85	13.46		
5/19/2007 0:18	11.14	13.46		
5/19/2007 0:18	10.94	13.46		
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6/1/2007 0:19	10.85	11.92	17.48	16.14
6/1/2007 0:19	10.94	11.92	17.38	16.05
6/1/2007 0:19	11.04	11.92	17.28	15.95
6/1/2007 0:19	10.94	11.92	17.19	15.86
6/1/2007 0:20	10.85	11.92	17.09	15.76
6/1/2007 0:20	11.04	11.82	17	15.66
6/1/2007 0:20	10.94	11.82	16.81	15.57
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6/8/2007 0:04	10.55	11.04	10.26	9.87
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6/8/2007 0:07	10.65	11.04	9.37	9.37
6/8/2007 0:08	10.65	11.04	9.37	9.37
6/8/2007 0:08	10.65	11.04	10.16	9.37
6/8/2007 0:08	10.65	11.04	10.06	9.47
6/8/2007 0:08	10.65	11.04	9.87	9.47
6/8/2007 0:09	10.65	11.14	9.77	9.57
6/8/2007 0:09	10.65	11.14	9.77	9.57
6/8/2007 0:09	10.65	11.14	9.87	9.57
6/8/2007 0:09	10.75	11.14	9.87	9.67
6/8/2007 0:10	10.65	11.14	10.06	9.67
6/8/2007 0:10	10.65	11.14	10.26	9.77
6/8/2007 0:10	10.65	11.24	10.46	9.77
6/8/2007 0:10	10.75	11.24	11.14	9.87
6/8/2007 0:11	10.75	11.24	11.04	9.97
6/8/2007 0:11	10.75	11.24	11.04	10.06
6/8/2007 0:11	10.75	11.33	11.33	10.16
6/8/2007 0:12	10.75		13.08	13.08
6/8/2007 0:12	10.75	11.43		14.33
6/8/2007 0:12	13.56	11.43		14.42
6/8/2007 0:12	13.75	11.43		14.71
6/8/2007 0:13	10.94	11.43	19.09	15
6/8/2007 0:13	10.75	11.53	16.14	15.19
6/8/2007 0:13	10.85	11.53	16.33	15.38
6/8/2007 0:13	10.85	11.53	15.86	15.47
6/8/2007 0:14	10.85	11.53	15.09	14.9
6/8/2007 0:14	10.85	11.53	14.8	14.42
6/8/2007 0:14	10.94	11.53	14.42	14.13
6/8/2007 0:14	11.04	11.53	14.23	13.75
6/8/2007 0:15	10.85	11.53	13.94	13.46
6/8/2007 0:15	10.85	11.63	13.37	13.27
6/8/2007 0:15	11.04	11.63	13.37	13.17
6/8/2007 0:15	10.85	11.63	13.27	13.08
6/8/2007 0:16	10.85	11.63	13.17	12.98
6/8/2007 0:16	11.04	11.63	13.27	12.98
6/8/2007 0:16	10.85	11.63	13.17	12.98
6/8/2007 0:16	10.85	11.63	13.17	12.98
6/8/2007 0:17	10.85	11.63	13.17	12.98
6/8/2007 0:17	10.85	11.63	13.17	13.08
6/8/2007 0:17	10.75	11.72	13.08	13.08

6/8/2007 0:17	10.85	11.72	13.08	13.08
6/8/2007 0:18	11.14	11.72	13.08	13.17
6/8/2007 0:18	10.85	11.72	13.08	13.17
6/8/2007 0:18	10.85	11.72	13.08	13.17
6/8/2007 0:18	10.85	11.72	13.17	13.17
6/8/2007 0:19	10.85	11.72	13.17	13.17
6/8/2007 0:19	10.94	11.72	13.17	13.17
6/8/2007 0:19	10.85	11.72	13.08	13.08
6/8/2007 0:19	10.94	11.72	13.17	13.08
6/8/2007 0:20	10.85	11.72	13.27	13.08
6/8/2007 0:20	10.85	11.72	13.27	13.08
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6/8/2007 0:21	10.85	11.63	13.27	13.08
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6/8/2007 0:21	10.85	11.63	13.27	12.88
6/8/2007 0:22	10.85	11.63	13.27	12.88
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6/8/2007 0:22	10.85	11.63	13.27	12.88
6/8/2007 0:22	10.85	11.63	13.27	12.88
6/8/2007 0:23	10.85	11.63	13.27	12.88
6/8/2007 0:23	10.85	11.63	13.27	12.88
6/8/2007 0:23	10.85	11.63	13.27	12.79
6/8/2007 0:23	10.85	11.63	13.17	12.79
6/9/2007 0:00	10.85	11.53	13.17	12.79
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6/9/2007 0:01	10.85	11.53	12.98	12.59
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6/9/2007 0:03	10.85	11.43	12.88	12.4
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6/9/2007 0:03	10.85	11.43	12.69	12.4
6/9/2007 0:04	10.85	11.43	12.69	12.3
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6/9/2007 0:06	10.85	11.33	12.5	11.92
6/9/2007 0:06	10.85	11.33	12.4	11.92
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6/9/2007 0:07	10.94	11.33	12.4	11.72
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6/9/2007 0:07	10.85	11.33	12.4	11.63
6/9/2007 0:08	10.94	11.33	12.4	11.63
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6/9/2007 0:10	10.85	11.43	12.88	12.01
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6/9/2007 0:13	10.85	11.63	14.23	13.56
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6/9/2007 0:15	10.85	11.72	14.52	14.33

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6/9/2007 0:16	10.85	11.82	14.42	14.52	
6/9/2007 0:16	10.85	11.82	14.61	14.61	
6/9/2007 0:16	11.14	11.82	14.71	14.61	
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6/9/2007 0:18	10.85	11.82	14.8	15.19	
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6/10/2007 0:09	10.85	11.63	13.65	13.56	
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6/10/2007 0:10	10.94	11.63	13.85	13.85	
6/10/2007 0:10	10.94	11.63	14.04	13.94	
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6/10/2007 0:11	10.85	11.72	14.23	14.13	
6/10/2007 0:11	10.94	11.72	14.23	14.13	
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6/11/2007 0:11	12.88	11.92	18.14	23.29	
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6/14/2007 0:19	10.75	12.01	18.43	18.14	29.95
6/14/2007 0:19	10.85	12.01	18.43	18.14	25.42
6/14/2007 0:19	10.85	12.01	18.52	18.24	23.77
6/14/2007 0:19	10.75	12.01	18.62	18.24	22.72
6/14/2007 0:20	10.75	12.01	18.62	18.24	21.38
6/14/2007 0:20	10.94	12.01	18.71	18.24	19.28
6/14/2007 0:20	10.85	12.01	18.71	18.24	17.57
6/14/2007 0:20	10.75	12.01	18.71	18.33	16.62
6/14/2007 0:21	10.75	12.01	18.81	18.33	16.14
6/14/2007 0:21	10.85	12.01	18.81	18.33	15.95
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6/14/2007 0:21	10.75	12.01	18.9	18.33	15
6/14/2007 0:22	10.85	12.01	18.9	18.33	15
6/14/2007 0:22	10.65	12.01	19	18.33	14.71
6/14/2007 0:22	10.65	12.01	19	18.33	14.23
6/14/2007 0:22	10.75	11.92	19	18.33	14.52
6/14/2007 0:23	10.85	11.92	19	18.33	14.23
6/14/2007 0:23	10.75	11.92	19.09	18.33	15.28
6/14/2007 0:23	10.75	11.92	19.09	18.33	15.86
6/14/2007 0:23	10.75	11.92	19.09	18.24	15.47
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6/15/2007 0:00	10.85	11.92	19	18.14	14.9
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6/15/2007 0:04	10.75	11.82	18.71	17.86	9.57
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6/15/2007 0:07	10.85	11.72	18.24	17.57	22.72
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6/15/2007 0:08	10.85	11.72	18.05	17.57	33.01
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6/15/2007 0:14	10.85	12.11	19.28	18.71	40.65
6/15/2007 0:15	10.85	12.11	19.28	18.81	39.73
6/15/2007 0:15	10.85	12.11	19.38	18.81	41.58
6/15/2007 0:15	10.85	12.11	19.47	18.9	41.69
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6/15/2007 0:16	10.75	12.11	19.57	19.09	39.62
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6/15/2007 0:16	10.85	12.21	19.76	19.28	41.34
6/15/2007 0:16	10.85	12.21	19.85	19.28	39.96
6/15/2007 0:17	10.94	12.21	19.85	19.38	40.99
6/15/2007 0:17	10.85	12.21	19.95	19.47	39.73
6/15/2007 0:17	10.75	12.21	20.04	19.47	40.53
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6/15/2007 0:18	10.94	12.21	20.14	19.57	32.81
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6/15/2007 0:18	10.94	12.21	20.33	19.76	35.22
6/15/2007 0:19	11.04	12.21	20.33	19.76	32.5
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6/15/2007 0:20	10.85	12.21	20.52	19.85	24.06
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6/16/2007 0:00	10.85	12.11	20.9	19.95	15.47
6/16/2007 0:00	10.65	12.11	20.9	19.95	15.66
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6/16/2007 0:03	10.85	12.01	20.9	19.85	12.88
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6/16/2007 0:03	10.75	12.01	20.9	19.85	12.98

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6/16/2007 0:04	10.75	11.92	20.81	19.76	12.98
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6/16/2007 0:06	10.75	11.92	20.52	19.47	19.57
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6/16/2007 0:07	10.75	11.92	20.52	19.47	27.86
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6/16/2007 0:09	10.75	11.92	20.23	19.38	36.19
6/16/2007 0:09	10.75	12.01	20.23	19.47	38.71
6/16/2007 0:09	10.85	12.01	20.23	19.38	35.76
6/16/2007 0:09	10.75	12.01	20.23	19.47	29.95
6/16/2007 0:10	10.75	12.01	20.33	19.47	33.85
6/16/2007 0:10	10.94	12.01	20.33	19.47	35.76
6/16/2007 0:10	10.94	12.01	20.33	19.57	36.51
6/16/2007 0:10	10.85	12.01	20.42	19.57	37.06
6/16/2007 0:11	10.85	12.01	20.42	19.57	37.06
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6/16/2007 0:12	10.75	12.11	20.81	19.85	42.05
6/16/2007 0:13	10.94	12.11	20.9	19.85	43.36
6/16/2007 0:13	10.85	12.11	20.9	19.85	44.46
6/16/2007 0:13	10.75	12.21	21	19.95	45.33
6/16/2007 0:13	11.04	12.21	21	19.95	44.58
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6/16/2007 0:14	10.85	12.21	20.9	20.23	41.58
6/16/2007 0:14	10.75	12.21	20.9	20.42	35.86
6/16/2007 0:14	10.85	12.21	20.81	20.52	33.74
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6/16/2007 0:15	10.75	12.21	20.81	20.71	30.56
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6/16/2007 0:15	10.65	12.21	20.81	20.71	26.49
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6/16/2007 0:17	10.75	12.21	21	20.81	26.68
6/16/2007 0:17	10.85	12.21	21	20.71	26.59
6/16/2007 0:17	10.75	12.21	20.9	20.71	24.45
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6/16/2007 0:18	10.75	12.21	20.42	19.95	23.48
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6/16/2007 0:19	10.75	12.21	19.57	19.28	22.81
6/16/2007 0:20	10.75	12.21	19.38	19.19	22.62
6/16/2007 0:20	10.85	12.21	19.19	19.09	23
6/16/2007 0:20	10.75	12.21	19	18.9	23.2
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6/16/2007 0:21	10.75	12.21	18.52	18.43	23.39
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6/17/2007 0:01	10.65	12.11	16.62	17	15

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6/17/2007 0:02	10.75	12.01	16.52	16.9	13.65
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6/17/2007 0:03	10.75	12.01	16.52	16.9	12.5
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6/17/2007 0:05	10.75	11.92	16.33	16.81	11.53
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6/17/2007 0:09	10.85	12.01	16.43	17	32.7
6/17/2007 0:10	10.75	12.01	16.43	17	36.73
6/17/2007 0:10	10.75	12.01	16.52	17.09	39.84
6/17/2007 0:10	10.85	12.11	16.52	17.09	39.28
6/17/2007 0:10	10.75	12.11	16.62	17.19	39.73
6/17/2007 0:11	10.75	12.11	16.71	17.19	38.94
6/17/2007 0:11	10.75	12.11	16.71	17.28	39.62
6/17/2007 0:11	10.85	12.11	16.81	17.38	40.42
6/17/2007 0:11	10.75	12.11	16.9	17.38	42.64
6/17/2007 0:12	10.75	12.11	17	17.38	43.84
6/17/2007 0:12	10.85	12.21	17.09	17.48	42.64
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6/17/2007 0:13	10.94	12.21	17.19	17.48	43.24
6/17/2007 0:13	11.24	12.21	17.28	17.48	45.45
6/17/2007 0:13	11.04	12.21	17.28	17.38	44.83
6/17/2007 0:13	10.94	12.21	17.28	17.38	38.83
6/17/2007 0:14	10.94	12.3	17.28	17.38	42.16
6/17/2007 0:14	11.14	12.3	17.28	17.48	42.88
6/17/2007 0:14	10.94	12.3	17.38	17.48	34.48
6/17/2007 0:14	10.94	12.3	17.38	17.57	32.29
6/17/2007 0:15	11.04	12.3	17.48	17.57	32.6
6/17/2007 0:15	10.94	12.3	17.57	17.67	33.01
6/17/2007 0:15	10.94	12.3	17.67	17.76	31.27
6/17/2007 0:15	10.85	12.3	17.76	17.76	35.33
6/17/2007 0:16	10.85	12.3	17.76	17.86	32.39
6/17/2007 0:16	10.75	12.3	17.86	17.95	34.8
6/17/2007 0:16	10.75	12.3	17.95	17.95	44.33
6/17/2007 0:16	10.94	12.3	18.05	18.05	45.45
6/17/2007 0:17	10.75	12.3	18.14	18.14	43.6
6/17/2007 0:17	10.75	12.3	18.14	18.24	44.21
6/17/2007 0:17	10.85	12.4	18.24	18.24	41.81
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6/17/2007 0:18	10.75	12.4	18.43	18.43	41.93
6/17/2007 0:18	10.85	12.4	18.43	18.52	40.76
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6/17/2007 0:20	10.85	12.3	18.81	18.71	26.2
6/17/2007 0:21	10.85	12.3	18.9	18.71	24.45
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6/17/2007 0:21	10.75	12.3	19	18.43	24.64
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6/18/2007 0:18	10.94	12.4	15.86	16.33	30.05
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6/18/2007 0:22	10.65	12.3	17	16.62	15.09
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6/19/2007 0:00	10.85	12.21	17.28	16.52	12.59
6/19/2007 0:00	10.75	12.21	17.28	16.52	13.46
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6/19/2007 0:03	10.75	12.11	17	16.33	11.92
6/19/2007 0:03	10.75	12.11	17	16.33	13.27
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6/19/2007 0:04	10.85	12.01	16.81	16.24	11.92
6/19/2007 0:04	10.65	12.01	16.71	16.24	11.92
6/19/2007 0:04	10.75	12.01	16.62	16.14	12.5
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6/19/2007 0:05	10.75	12.01	16.33	16.05	11.33
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6/19/2007 0:07	10.94	11.92	15.86	15.76	23.97
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6/19/2007 0:07	10.75	12.01	15.76	15.76	29.35
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6/19/2007 0:16	10.94	12.3	17.28	17.19	35.33
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6/19/2007 0:22	10.75	12.3	18.52	18.14	17.57
6/19/2007 0:22	10.85	12.3	18.62	18.14	18.05
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6/19/2007 0:23	11.04	12.21	18.62	18.14	17.57
6/19/2007 0:23	10.75	12.21	18.62	18.14	17.48
6/19/2007 0:23	10.75	12.21	18.62	18.14	17.76
6/20/2007 0:00	10.75	12.21	18.62	18.14	17.67
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6/20/2007 0:00	10.75	12.21	18.52	18.05	17
6/20/2007 0:01	10.75	12.21	18.52	18.05	17.48
6/20/2007 0:01	10.85	12.21	18.52	18.05	16.71
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6/20/2007 0:06	10.75	12.01	17.48	17.57	12.11
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6/20/2007 0:08	10.75	12.01	16.9	17.19	35.44
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6/20/2007 0:08	10.75	12.01	16.71	17	40.07
6/20/2007 0:09	10.75	12.11	16.71	17	39.73
6/20/2007 0:09	10.75	12.11	16.62	17	39.96
6/20/2007 0:09	10.85	12.11	16.52	17	38.6
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6/20/2007 0:10	11.04	12.11	16.43	17.09	39.39
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6/20/2007 0:10	10.85	12.21	16.43	17.19	42.16
6/20/2007 0:11	10.94	12.21	16.43	17.28	41.11
6/20/2007 0:11	10.75	12.21	16.43	17.28	42.05
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6/20/2007 0:11	10.75	12.21	16.52	17.38	42.52
6/20/2007 0:12	10.75	12.21	16.52	17.48	41.69
6/20/2007 0:12	10.75	12.3	16.62	17.57	41.23
6/20/2007 0:12	10.85	12.3	16.71	18.9	44.21
6/20/2007 0:12	10.94	12.4	16.71		43.24
6/20/2007 0:13	10.85	12.3	16.81		42.88
6/20/2007 0:13	10.75	16.81			43.84
6/20/2007 0:13	10.75	12.3			44.21
6/20/2007 0:13	10.85	16.81			44.46
6/20/2007 0:14	10.75				44.21
6/20/2007 0:14	10.75		24.45		44.33
6/20/2007 0:14	10.75		23.77		45.45
6/20/2007 0:14	10.85		22.72	28.36	46.21
6/20/2007 0:15	10.75	12.79	20.62	25.81	46.85
6/20/2007 0:15	10.75	12.4	19.57	24.84	44.33
6/20/2007 0:15	10.85	12.4	19	24.26	46.08
6/20/2007 0:15	10.75	12.4	18.62	23.68	46.59
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6/20/2007 0:16	11.14	12.5	18.33	19.28	45.58
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6/20/2007 0:17	10.85	12.5	18.14	20.04	41.34
6/20/2007 0:17	10.75	12.5	18.14	20.14	43.12
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6/20/2007 0:18	10.85	12.5	18.14	19.95	35.22
6/20/2007 0:18	10.94	12.5	18.14	18.81	38.16
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6/21/2007 0:04	10.75	12.21	17.48	17.86	17.28
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6/21/2007 0:10	10.75	12.21	17.48	17.76	40.53
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6/21/2007 0:14	10.94	12.4	18.43	19.38	33.54
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6/21/2007 0:14	10.94	12.4	18.43	19	36.95
6/21/2007 0:14	10.94	12.4	18.43	18.81	43.12
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6/21/2007 0:15	11.04	12.4	18.43	19.19	34.16
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6/21/2007 0:16	10.94	12.4	18.33	18.52	28.56
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6/21/2007 0:17	10.94	12.4	18.14	18.43	30.15

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6/21/2007 0:17	10.85	12.4	18.14	18.52	33.12
6/21/2007 0:17	10.75	12.4	18.14	18.33	39.73
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6/21/2007 0:19	10.85	12.5	18.05	18.14	25.13
6/21/2007 0:19	10.75	12.5	18.14	18.14	25.13
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6/21/2007 0:21	10.75	12.4	18.05	18.24	19.28
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6/21/2007 0:21	10.85	12.4	18.14	18.33	23.2
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6/21/2007 0:23	10.75	12.4	18.05	18.52	20.33
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6/22/2007 0:00	10.75	12.3	17.95	18.43	18.62
6/22/2007 0:00	10.85	12.3	17.86	18.43	18.71
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6/22/2007 0:01	10.85	12.3	17.86	18.52	16.9
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6/22/2007 0:02	10.75	12.3	17.86	18.52	16.14
6/22/2007 0:02	10.85	12.3	17.86	18.52	16.14
6/22/2007 0:03	10.75	12.3	17.76	18.62	14.13
6/22/2007 0:03	10.75	12.3	17.76	18.62	12.21
6/22/2007 0:04	10.85	12.21	17.86	18.62	11.53
6/22/2007 0:04	10.75	12.21	17.86	18.62	12.4
6/22/2007 0:04	10.75	12.21	17.86	18.62	12.88
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6/22/2007 0:05	10.85	12.21	17.76	18.62	12.11
6/22/2007 0:05	10.75	12.21	17.76	18.62	11.33
6/22/2007 0:05	10.75	12.21	17.76	18.71	11.24
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6/22/2007 0:06	10.65	12.21	17.76	18.62	15.28
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6/22/2007 0:11	10.75	12.21	17.86	19	27.08
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6/22/2007 0:16	10.85	12.3	18.52	19.09	29.25
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6/22/2007 0:17	10.94	12.3	18.52	19.19	25.9
6/22/2007 0:18	10.85	12.4	18.62	19.19	25.71
6/22/2007 0:18	10.85	12.4	18.62	19.38	23.77
6/22/2007 0:18	10.85	12.4	18.62	19.38	23.29
6/22/2007 0:18	10.94	12.4	18.62	19.38	26.98
6/22/2007 0:19	10.75	12.4	18.62	19.28	27.67
6/22/2007 0:19	10.75	12.4	18.62	19.38	23.68
6/22/2007 0:19	10.85	12.4	18.62	19.38	23.1
6/22/2007 0:19	10.85	12.3	18.62	19.38	20.81
6/22/2007 0:20	10.75	12.4	18.62	19.38	18.52
6/22/2007 0:20	10.85	12.4	18.52	19.47	17.86
6/22/2007 0:20	10.75	12.3	18.52	19.57	17.57
6/22/2007 0:20	10.75	12.3	18.62	19.57	17.28
6/22/2007 0:21	10.75	12.3	18.52	19.47	16.52
6/22/2007 0:21	10.75	12.3	18.52	19.38	16.9
6/22/2007 0:21	10.75	12.3	18.52	19.38	15.95
6/22/2007 0:21	10.75	12.3	18.52	19.38	14.9
6/22/2007 0:22	10.85	12.3	18.52	19.28	15.57
6/22/2007 0:22	10.85	12.3	18.52	19.28	14.52
6/22/2007 0:22	10.75	12.3	18.52	19.28	13.85
6/22/2007 0:22	10.75	12.3	18.52	19.28	13.85
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6/22/2007 0:23	10.85	12.3	18.52	19.28	12.88
6/22/2007 0:23	10.75	12.3	18.43	19.38	12.88
6/22/2007 0:23	10.75	12.21	18.52	19.28	12.79
6/23/2007 0:00	10.75	12.3	18.43	19.28	12.5
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6/23/2007 0:04	10.75	12.11	18.05	19.09	9.57
6/23/2007 0:05	10.85	12.11	18.05	19	9.67
6/23/2007 0:05	10.75	12.11	18.05	19	9.67
6/23/2007 0:05	10.75	12.11	17.95	19	9.87
6/23/2007 0:05	10.75	12.11	17.95	19	10.75
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6/23/2007 0:07	10.75	12.01	17.76	18.81	24.45
6/23/2007 0:07	10.75	12.01	17.76	18.81	26.29
6/23/2007 0:07	10.85	12.01	17.76	18.81	28.26
6/23/2007 0:08	10.75	12.01	17.57	18.81	31.98
6/23/2007 0:08	10.75	12.01	17.57	18.81	35.44
6/23/2007 0:08	10.85	12.01	17.57	18.71	36.62
6/23/2007 0:08	10.85	12.01	17.57	18.71	35.12
6/23/2007 0:09	10.75	12.01	17.57	18.62	35.01
6/23/2007 0:09	10.85	12.01	17.67	18.71	36.62
6/23/2007 0:09	10.94	12.01	17.67	18.71	34.48
6/23/2007 0:09	10.75	12.01	17.67	18.71	30.26
6/23/2007 0:10	10.75	12.01	17.76	18.81	32.91
6/23/2007 0:10	10.94	12.01	17.76	18.81	35.65
6/23/2007 0:10	10.94	12.11	17.86	18.81	36.08
6/23/2007 0:10	10.75	12.11	17.86	18.81	36.4
6/23/2007 0:11	10.85	12.11	17.86	18.9	37.27
6/23/2007 0:11	10.85	12.11	17.86	18.9	38.05
6/23/2007 0:11	10.75	12.11	17.95	18.9	37.82
6/23/2007 0:11	10.75	12.11	17.95	18.9	37.17
6/23/2007 0:12	10.85	12.11	18.05	18.9	38.49
6/23/2007 0:12	10.85	12.11	18.05	18.9	38.83
6/23/2007 0:12	10.75	12.11	18.14	18.9	40.19
6/23/2007 0:12	10.75	12.21	18.14	18.9	39.5
6/23/2007 0:13	11.14	12.21	18.14	18.9	40.3
6/23/2007 0:13	10.94	12.21	18.24	19	43.12
6/23/2007 0:13	10.85	12.21	18.24	19	43.72

6/23/2007 0:13	10.85	12.21	18.33	19	42.4
6/23/2007 0:14	10.85	12.21	18.33	19	43
6/23/2007 0:14	10.75	12.21	18.33	19.09	44.21
6/23/2007 0:14	10.75	12.21	18.43	19.19	42.64
6/23/2007 0:14	10.85	12.3	18.43	19.38	43.24
6/23/2007 0:15	10.94	12.3	18.52	19.38	43.12
6/23/2007 0:15	10.94	12.3	18.52	19.28	42.88
6/23/2007 0:15	10.85	12.3	18.62	19.28	43.97
6/23/2007 0:15	11.14	12.3	18.62	19.28	43.72
6/23/2007 0:16	10.85	12.3	18.62	19.28	44.09
6/23/2007 0:16	10.85	12.3	18.71	19.28	43.72
6/23/2007 0:16	10.94	12.3	18.9	19.28	44.21
6/23/2007 0:16	10.85	12.3	18.71	19.28	44.83
6/23/2007 0:17	10.85	12.4	18.81	19.38	45.7
6/23/2007 0:17	10.85	12.4	18.9	19.38	44.58
6/23/2007 0:17	10.75	12.4	18.9	19.38	42.76
6/23/2007 0:17	10.75	12.4	18.9	19.38	40.76
6/23/2007 0:18	10.75	12.4	19	19.57	37.06
6/23/2007 0:18	10.85	12.4	18.81	19.47	40.76
6/23/2007 0:18	10.75	12.4	19	19.47	38.71
6/23/2007 0:18	10.75	12.4	19.19	19.47	37.82
6/23/2007 0:19	10.85	12.4	19.09	19.47	35.44
6/23/2007 0:19	11.04	12.4	18.9	19.57	31.47
6/23/2007 0:19	10.85	12.4	19.09	19.57	30.86
6/23/2007 0:19	10.85	12.4	19.28	19.57	28.66
6/23/2007 0:20	11.04	12.4	19	19.57	27.17
6/23/2007 0:20	10.85	12.4	19.09	19.57	25.9
6/23/2007 0:20	10.85	12.4	19.19	19.57	24.35
6/23/2007 0:20	10.85	12.4	19.28	19.66	22.62
6/23/2007 0:21	10.75	12.4	19.28	19.76	22.91
6/23/2007 0:21	10.75	12.4	19.28	19.85	22.24
6/23/2007 0:21	10.75	12.4	19.28	19.76	21
6/23/2007 0:21	10.94	12.4	19.28	19.66	20.04
6/23/2007 0:22	10.85	12.4	19.28	19.66	19.28
6/23/2007 0:22	10.75	12.4	19.28	19.66	19.19
6/23/2007 0:22	10.85	12.4	19.28	19.57	19
6/23/2007 0:23	10.75	12.4	19.28	19.66	18.81
6/23/2007 0:23	10.75	12.4	19.28	19.66	19
6/23/2007 0:23	10.85	12.4	19.28	19.66	17.76
6/23/2007 0:23	10.75	12.4	19.09	19.66	17.86
6/24/2007 0:00	10.75	12.4	19.19	19.57	19.38
6/24/2007 0:00	10.75	12.4	19.47	19.57	19.28
6/24/2007 0:00	10.85	12.4	19.38	19.57	18.14
6/24/2007 0:00	10.75	12.3	19.38	19.57	16.33
6/24/2007 0:01	10.75	12.3	19.28	19.57	15.76
6/24/2007 0:01	10.75	12.3	19.19	19.57	16.9
6/24/2007 0:01	10.75	12.3	19.09	19.76	16.14
6/24/2007 0:01	10.75	12.3	19.09	19.66	15.57
6/24/2007 0:02	10.75	12.3	19.09	19.57	15.19
6/24/2007 0:02	10.85	12.3	19.09	19.57	14.71
6/24/2007 0:02	10.85	12.3	19	19.57	15
6/24/2007 0:02	10.75	12.3	19	19.57	14.33
6/24/2007 0:03	10.75	12.3	19	19.57	14.04
6/24/2007 0:03	10.85	12.3	19	19.57	14.42
6/24/2007 0:03	10.75	12.21	18.9	19.47	15.57
6/24/2007 0:03	10.75	12.21	18.9	19.57	15.38
6/24/2007 0:03	10.75	12.21	18.9	19.66	15.28
6/24/2007 0:04	10.75	12.21	18.9	19.66	14.71
6/24/2007 0:04	10.75	12.21	18.9	19.57	15.66
6/24/2007 0:04	10.75	12.21	18.9	19.47	16.24
6/24/2007 0:04	10.75	12.21	18.9	19.47	15.86
6/24/2007 0:05	10.75	12.21	18.81	19.47	15.57
6/24/2007 0:05	10.65	12.21	18.81	19.47	14.33
6/24/2007 0:05	10.75	12.21	18.81	19.47	13.75
6/24/2007 0:05	10.75	12.21	18.81	19.47	12.88
6/24/2007 0:06	10.85	12.21	18.81	19.47	13.94
6/24/2007 0:06	10.75	12.21	18.81	19.38	16.24
6/24/2007 0:06	10.75	12.21	18.81	19.38	16.24
6/24/2007 0:06	10.75	12.11	18.81	19.38	21.76
6/24/2007 0:07	10.85	12.11	18.62	19.38	26.68
6/24/2007 0:07	10.75	12.11	18.71	19.38	28.75
6/24/2007 0:07	10.75	12.11	18.71	19.28	30.96
6/24/2007 0:07	10.85	12.11	18.71	19.28	34.16
6/24/2007 0:08	10.85	12.11	18.52	19.28	36.19
6/24/2007 0:08	10.75	12.11	18.62	19.28	37.94
6/24/2007 0:08	10.85	12.11	18.62	19.28	39.28
6/24/2007 0:08	10.94	12.11	18.62	19.28	38.71
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6/24/2007 0:09	10.75	12.21	18.43	19.19	38.83
6/24/2007 0:09	11.04	12.21	18.62	19.19	39.84
6/24/2007 0:09	10.94	12.21	18.62	19.28	33.85
6/24/2007 0:10	10.85	12.21	18.62	19.28	36.62
6/24/2007 0:10	10.85	12.21	18.62	19.28	40.3
6/24/2007 0:10	10.85	12.21	18.71	19.28	40.76
6/24/2007 0:10	10.75	12.21	18.71	19.38	40.76
6/24/2007 0:11	10.94	12.21	18.81	19.38	40.19
6/24/2007 0:11	10.85	12.21	18.81	19.38	40.3
6/24/2007 0:11	10.75	12.21	18.9	19.38	41.34
6/24/2007 0:11	10.75	12.3	18.9	19.38	41.81

6/24/2007 0:12	10.85	12.3	18.9	19.57	44.09
6/24/2007 0:12	11.24	12.3	19	19.47	43.72
6/24/2007 0:12	10.94	12.3	19.09	19.47	45.33
6/24/2007 0:12	10.85	12.3	19	19.47	40.53
6/24/2007 0:13	10.85	12.3	19.09	19.47	37.6
6/24/2007 0:13	11.14	12.3	19.09	19.57	40.19
6/24/2007 0:13	10.94	12.3	19.19	19.57	46.47
6/24/2007 0:13	11.14	12.3	19.28	19.66	46.72
6/24/2007 0:14	11.04	12.4	19.28	19.66	47.63
6/24/2007 0:14	10.85	12.4	19.38	19.66	44.33
6/24/2007 0:14	11.04	12.4	19.38	19.66	39.84
6/24/2007 0:14	11.14	12.4	19.38	19.66	34.27
6/24/2007 0:15	10.85	12.4	19.47	19.66	32.29
6/24/2007 0:15	10.85	12.4	19.47	19.66	31.17
6/24/2007 0:15	10.94	12.4	19.57	19.76	30.36
6/24/2007 0:15	10.94	12.4	19.57	19.76	29.85
6/24/2007 0:16	10.85	12.4	19.28	19.76	30.86
6/24/2007 0:16	10.85	12.4	19.28	19.76	32.81
6/24/2007 0:16	10.94	12.4	19.28	19.85	34.48
6/24/2007 0:16	10.75	12.4	19.38	20.04	38.49
6/24/2007 0:17	10.75	12.4	19.38	19.95	37.06
6/24/2007 0:17	10.94	12.4	19.38	19.76	38.05
6/24/2007 0:17	10.94	12.4	19.57	19.76	35.86
6/24/2007 0:17	10.94	12.4	19.57	19.76	32.6
6/24/2007 0:18	11.04	12.5	19.66	19.76	30.76
6/24/2007 0:18	10.94	12.4	19.57	19.76	32.19
6/24/2007 0:18	10.85	12.5	19.57	19.76	28.75
6/24/2007 0:18	10.85	12.5	19.38	19.85	33.12
6/24/2007 0:19	10.85	12.5	19.66	19.76	33.54
6/24/2007 0:19	10.94	12.5	19.76	19.76	33.74
6/24/2007 0:19	10.85	12.5	19.85	19.76	30.36
6/24/2007 0:19	10.85	12.5	19.85	19.76	29.25
6/24/2007 0:20	10.85	12.5	19.85	19.76	28.26
6/24/2007 0:20	10.75	12.5	19.76	19.76	26.68
6/24/2007 0:20	10.75	12.5	19.76	19.76	26
6/24/2007 0:20	10.85	12.5	19.76	19.76	26.29
6/24/2007 0:21	10.85	12.5	19.66	19.76	26
6/24/2007 0:21	10.75	12.5	19.66	19.85	25.9
6/24/2007 0:21	10.85	12.5	19.47	19.85	25.9
6/24/2007 0:21	10.94	12.4	19.28	19.95	25.42
6/24/2007 0:22	10.75	12.5	19.19	19.85	24.93
6/24/2007 0:22	10.75	12.4	19	19.57	25.22
6/24/2007 0:22	10.85	12.4	18.9	19.47	25.32
6/24/2007 0:22	10.75	12.4	18.9	19.28	25.61
6/24/2007 0:23	10.75	12.4	19	19.19	25.42
6/24/2007 0:23	10.85	12.4	18.62	19.09	25.9
6/24/2007 0:23	10.94	12.4	18.14	19	26.2
6/24/2007 0:23	10.85	12.4	17.95	19	26.2
6/25/2007 0:00	10.85	12.4	17.67	18.9	26.2
6/25/2007 0:00	10.94	12.4	17.86	19	25.9
6/25/2007 0:00	10.85	12.4	18.05	19	26.1
6/25/2007 0:00	10.75	12.4	18.05	19	26.2
6/25/2007 0:01	10.85	12.4	18.14	19	26.1
6/25/2007 0:01	10.94	12.4	18.24	19	25.61
6/25/2007 0:01	10.85	12.4	18.24	18.81	21.57
6/25/2007 0:01	10.75	12.4	18.33	18.71	19.66
6/25/2007 0:02	10.94	12.4	18.33	18.9	18.24
6/25/2007 0:02	10.75	12.4	18.43	19	17.57
6/25/2007 0:02	10.75	12.4	18.43	19.09	17.76
6/25/2007 0:02	10.75	12.4	18.52	19.19	16.14
6/25/2007 0:03	10.85	12.4	18.52	19.09	15.86
6/25/2007 0:03	10.85	12.4	18.52	19.19	15.28
6/25/2007 0:03	10.75	12.4	18.52	19.19	15.19
6/25/2007 0:03	10.75	12.4	18.52	19.09	14.9
6/25/2007 0:04	10.65	12.4	18.52	19	15
6/25/2007 0:04	10.65	12.4	18.52	19.09	16.43
6/25/2007 0:04	10.75	12.4	18.52	19.09	14.9
6/25/2007 0:04	10.75	12.4	18.43	19.09	15.28
6/25/2007 0:05	10.85	12.4	18.52	19.09	15.38
6/25/2007 0:05	10.75	12.3	18.52	19.09	15
6/25/2007 0:05	10.75	12.3	18.52	19.09	14.04
6/25/2007 0:05	10.85	12.3	18.43	19	14.33
6/25/2007 0:06	10.75	12.3	18.43	19	15.47
6/25/2007 0:06	10.75	12.3	18.43	18.9	18.05
6/25/2007 0:06	10.75	12.3	18.43	18.81	19.95
6/25/2007 0:06	10.85	12.3	18.43	18.9	23
6/25/2007 0:07	10.65	12.3	18.43	19	28.66
6/25/2007 0:07	10.75	12.3	18.43	19	29.95
6/25/2007 0:07	10.75	12.3	18.43	19	33.22
6/25/2007 0:07	10.85	12.3	18.33	19	36.08
6/25/2007 0:08	10.75	12.3	18.33	19	38.49
6/25/2007 0:08	10.75	12.3	18.33	19	40.53
6/25/2007 0:08	10.94	12.3	18.33	18.9	41.93
6/25/2007 0:08	10.75	12.3	18.24	18.81	43.24
6/25/2007 0:09	10.75	12.3	18.24	18.9	42.76
6/25/2007 0:09	10.94	12.3	18.24	18.9	42.16
6/25/2007 0:09	10.94	12.3	18.33	18.9	41.23
6/25/2007 0:09	10.75	12.3	18.33	19	35.33
6/25/2007 0:10	10.85	12.3	18.43	19	38.38

6/25/2007 0:10	11.04	12.3	18.43	18.81	41.58
6/25/2007 0:10	10.85	12.3	18.43	19	41.58
6/25/2007 0:10	10.85	12.3	18.52	19	41.11
6/25/2007 0:11	10.85	12.3	18.52	19.09	42.16
6/25/2007 0:11	10.75	12.4	18.62	19.09	41.58
6/25/2007 0:11	10.75	12.4	18.62	19.09	40.99
6/25/2007 0:11	10.75	12.4	18.62	19.09	41.93
6/25/2007 0:12	11.14	12.4	18.71	19.09	41.58
6/25/2007 0:12	10.85	12.4	18.81	19.19	42.05
6/25/2007 0:12	10.85	12.4	18.81	19.09	42.64
6/25/2007 0:12	10.85	12.4	18.71	19.19	43.24
6/25/2007 0:13	10.94	12.4	18.9	19.19	43.84
6/25/2007 0:13	10.85	12.4	18.9	19.28	44.09
6/25/2007 0:13	11.04	12.4	18.81	19.28	45.96
6/25/2007 0:13	11.24	12.5	18.9	19.38	45.2
6/25/2007 0:14	10.85	12.5	19	19.38	46.85
6/25/2007 0:14	10.85	12.5	19.09	19.38	45.83
6/25/2007 0:14	10.85	12.5	19.19	19.38	46.08
6/25/2007 0:14	10.85	12.5	19.19	19.38	47.37
6/25/2007 0:15	10.75	12.5	19.09	19.47	45.7
6/25/2007 0:15	10.75	12.5	19.19	19.57	46.85
6/25/2007 0:15	10.94	12.5	19.28	19.57	45.45
6/25/2007 0:15	10.85	12.59	19.28	19.57	47.89
6/25/2007 0:16	10.85	12.59	19.28	19.57	46.98
6/25/2007 0:16	11.14	12.59	19.38	19.57	36.95
6/25/2007 0:16	10.94	12.59	19.47	19.66	36.95
6/25/2007 0:16	10.85	12.59	19.38	19.66	39.05
6/25/2007 0:17	10.85	12.59	19.47	19.85	35.76
6/25/2007 0:17	10.94	12.59	19.47	20.04	35.01
6/25/2007 0:17	10.85	12.59	19.47	20.23	33.43
6/25/2007 0:17	10.94	12.59	19.66	19.85	32.39
6/25/2007 0:18	10.85	12.59	19.47	19.76	32.29
6/25/2007 0:18	10.94	12.59	19.47	19.76	32.5
6/25/2007 0:18	10.85	12.59	19.47	19.76	37.71
6/25/2007 0:18	11.04	12.59	19.47	19.85	40.42
6/25/2007 0:19	10.85	12.59	19.57	19.85	36.08
6/25/2007 0:19	10.85	12.59	19.47	19.76	34.27
6/25/2007 0:19	10.94	12.59	19.47	19.76	33.95
6/25/2007 0:19	10.94	12.59	19.38	19.76	30.86
6/25/2007 0:20	10.85	12.59	19.38	19.76	29.25
6/25/2007 0:20	10.85	12.59	19.47	19.76	27.27
6/25/2007 0:20	10.85	12.59	19.47	19.76	27.08
6/25/2007 0:20	10.94	12.59	19.47	19.76	26.29
6/25/2007 0:21	10.75	12.59	19.47	19.76	25.42
6/25/2007 0:21	10.94	12.59	19.47	19.76	24.35
6/25/2007 0:21	10.94	12.59	19.38	19.85	23.87
6/25/2007 0:21	10.75	12.59	19.28	19.76	22.91
6/25/2007 0:22	10.75	12.59	19.38	19.85	23.1
6/25/2007 0:22	10.85	12.59	19.38	19.85	23.1
6/25/2007 0:22	10.94	12.59	19.28	19.85	23.1
6/25/2007 0:22	10.75	12.59	19	19.85	23.39
6/25/2007 0:23	10.75	12.59	19	19.76	23.39
6/25/2007 0:23	10.85	12.59	19.19	19.76	23.39
6/25/2007 0:23	10.75	12.59	18.9	19.66	23.58
6/25/2007 0:23	10.75	12.59	18.43	19.57	23.48
6/26/2007 0:00	10.75	12.5	18.05	19.47	23.48
6/26/2007 0:00	10.85	12.5	18.9	19.38	23.29
6/26/2007 0:00	10.75	12.5	18.81	19.38	23.48
6/26/2007 0:00	10.75	12.5	18.33	19.28	23.29
6/26/2007 0:01	10.94	12.5	17.86	19	22.91
6/26/2007 0:01	10.85	12.5	18.9	19.28	21.76
6/26/2007 0:01	10.75	12.5	18.52	19.19	21.66
6/26/2007 0:01	10.75	12.5	18.24	19.28	20.14
6/26/2007 0:02	10.75	12.5	17.95	19.28	20.04
6/26/2007 0:02	10.65	12.5	17.76	19.28	19.85
6/26/2007 0:02	10.75	12.5	18.62	19.09	18.81
6/26/2007 0:02	10.75	12.5	18.9	19	18.52
6/26/2007 0:03	10.94	12.5	18.62	19.38	19.76
6/26/2007 0:03	10.75	12.5	18.33	19.47	19.85
6/26/2007 0:03	10.85	12.5	18.14	19.47	19
6/26/2007 0:03	10.85	12.5	18.9	19.47	18.62
6/26/2007 0:04	10.85	12.5	18.62	19.47	17.28
6/26/2007 0:04	10.75	12.4	18.43	19.47	15.95
6/26/2007 0:04	10.75	12.4	18.71	19.47	15.47
6/26/2007 0:04	10.85	12.4	18.81	19.38	16.52
6/26/2007 0:05	10.75	12.4	18.62	19.38	17.57
6/26/2007 0:05	10.75	12.4	18.33	19.38	17.09
6/26/2007 0:05	10.75	12.4	18.24	19.38	17.57
6/26/2007 0:05	10.85	12.4	18.81	19.47	17.57
6/26/2007 0:06	10.75	12.4	18.62	19.47	17.95
6/26/2007 0:06	10.85	12.4	18.43	19.47	18.43
6/26/2007 0:06	10.85	12.4	18.71	19.47	19.38
6/26/2007 0:06	10.75	12.4	18.62	19.47	19.66
6/26/2007 0:07	10.75	12.4	18.43	19.28	23
6/26/2007 0:07	10.94	12.4	18.05	19.19	27.47
6/26/2007 0:07	10.94	12.3	18.71	19.28	31.06
6/26/2007 0:07	10.85	12.3	18.52	19.28	31.78
6/26/2007 0:08	10.94	12.3	18.33	19.38	34.16
6/26/2007 0:08	11.04	12.3	18.14	19.38	35.12

6/26/2007 0:08	10.94	12.3	18.71	19.38	31.47
6/26/2007 0:08	10.94	12.3	18.52	19.47	28.56
6/26/2007 0:09	10.94	12.4	18.43	19.47	29.35
6/26/2007 0:09	10.94	12.3	18.24	19.47	28.66
6/26/2007 0:09	10.75	12.4	18.24	19.47	23.39
6/26/2007 0:09	10.75	12.4	18.81	19.47	20.04
6/26/2007 0:10	10.75	12.4	18.81	19.57	19.85
6/26/2007 0:10	10.85	12.4	18.62	19.57	21.47
6/26/2007 0:10	10.75	12.3	18.81	19.57	23.29
6/26/2007 0:10	10.85	12.4	18.9	19.57	26.2
6/26/2007 0:11	11.04	12.4	18.33	19.57	21.76
6/26/2007 0:11	10.85	12.4	18.9	19.57	21.38
6/26/2007 0:11		12.4	18.52	19.57	23
6/26/2007 0:11		12.4	19.28	19.47	24.64
6/26/2007 0:12		12.4	19.57		24.26
6/26/2007 0:12		12.4	19.95		25.71
6/26/2007 0:12		12.4	19.95		27.96
6/26/2007 0:12		12.4	19.85	19.95	29.35
6/26/2007 0:13		12.4	19.66	19.95	30.26
6/26/2007 0:13		12.4	19.57	19.85	34.59
6/26/2007 0:13		12.4	19.57	19.85	31.68
6/26/2007 0:13		12.4	19.57	19.85	24.93
6/26/2007 0:14		12.4	19.47	19.76	22.53
6/26/2007 0:14		12.4	19.57	19.85	21.47
6/26/2007 0:14		12.4	19.66	19.76	19.95
6/26/2007 0:14		12.4	19.76	19.85	19
6/26/2007 0:15		12.4	19.76	19.85	19
6/26/2007 0:15		12.4	19.66	19.95	18.33
6/26/2007 0:15		12.4	19.66	19.85	18.14
6/26/2007 0:15		12.4	19.66	19.85	17.95
6/26/2007 0:16		12.4	19.66	19.85	18.43
6/26/2007 0:16		12.4	19.66	19.85	19.19
6/26/2007 0:16		12.4	19.66	19.85	19.66
6/26/2007 0:16		12.4	19.76	19.85	20.33
6/26/2007 0:17		12.5	19.76	19.85	21.95
6/26/2007 0:17		12.4	19.66	19.95	22.53
6/26/2007 0:17		12.5	19.66	19.95	22.91
6/26/2007 0:17		12.5	19.76	19.95	23.39
6/26/2007 0:18		12.5	19.76	19.95	22.81
6/26/2007 0:18		12.5	19.66	19.95	22.43
6/26/2007 0:18		12.5	19.76	19.95	21.66
6/26/2007 0:18		12.5	19.76	19.95	21.09
6/26/2007 0:19		12.5	19.85	19.95	20.33
6/26/2007 0:19		12.5	19.95	19.95	19.47
6/26/2007 0:19		12.5	19.85	20.04	19.09
6/26/2007 0:19		12.5	19.95	20.04	18.52
6/26/2007 0:20		12.5	19.95	20.04	18.05
6/26/2007 0:20		12.5	20.04	20.14	17.76
6/26/2007 0:20		12.5	19.95	20.04	17.19
6/26/2007 0:20		12.5	19.95	20.14	16.71
6/26/2007 0:21		12.5	20.04	20.14	17.19
6/26/2007 0:21		12.5	20.14	20.14	17.48
6/26/2007 0:21		12.5	20.14	20.23	17.28
6/26/2007 0:21		12.5	20.04	20.23	16.62
6/26/2007 0:22		12.5	20.04	20.23	16.71
6/26/2007 0:22		12.5	20.04	20.23	17.38
6/26/2007 0:22		12.59	20.14	20.23	17.76
6/26/2007 0:22		12.59	20.14	20.23	17.86
6/26/2007 0:23		12.59	20.14	20.23	17.57
6/26/2007 0:23		12.59	20.04	20.23	17.19
6/26/2007 0:23		12.59	20.04	20.23	16.24
6/26/2007 0:23		12.59	20.14	20.33	15.95
6/27/2007 0:00		12.59	20.14	20.33	15.38
6/27/2007 0:00		12.59	20.04	20.23	14.9
6/27/2007 0:00		12.59	20.04	20.23	14.9
6/27/2007 0:00		12.59	20.04	20.23	14.8
6/27/2007 0:01		12.59	20.04	20.23	14.8
6/27/2007 0:01		12.59	20.14	20.23	15.28
6/27/2007 0:01		12.59	20.14	20.23	15.47
6/27/2007 0:01		12.59	19.95	20.23	15.76
6/27/2007 0:02		12.59	19.85	20.23	15.09
6/27/2007 0:02		12.59	19.85	20.23	14.33
6/27/2007 0:02		12.59	19.85	20.23	13.75
6/27/2007 0:02		12.59	19.95	20.23	13.46
6/27/2007 0:03		12.59	19.85	20.23	13.37
6/27/2007 0:03		12.59	19.85	20.23	13.27
6/27/2007 0:03		12.59	19.76	20.23	12.88
6/27/2007 0:03		12.59	19.76	20.14	12.4
6/27/2007 0:04		12.69	19.76	20.23	12.21
6/27/2007 0:04		12.69	19.66	20.23	12.5
6/27/2007 0:04		12.69	19.66	20.23	12.5
6/27/2007 0:04		12.69	19.66	20.14	12.59
6/27/2007 0:05		12.69	19.57	20.14	12.79
6/27/2007 0:05		12.69	19.57	20.14	13.17
6/27/2007 0:05		12.69	19.47	20.14	13.08
6/27/2007 0:05		12.69	19.57	20.14	12.98
6/27/2007 0:06		12.69	19.47	20.14	13.37
6/27/2007 0:06		12.69	19.47	20.04	14.04
6/27/2007 0:06		12.69	19.47	20.14	14.23

6/27/2007 0:06		12.69	19.47	20.14	14.42
6/27/2007 0:07		12.69	19.47	20.14	14.8
6/27/2007 0:07		12.69	19.38	20.23	15
6/27/2007 0:07		12.69	19.28	20.14	16.05
6/27/2007 0:07		12.69	19.38	20.14	17.09
6/27/2007 0:08		12.69	19.38	20.23	20.9
6/27/2007 0:08		12.69	19.38	20.14	19.66
6/27/2007 0:08		12.69	19.38	20.14	20.33
6/27/2007 0:08		12.79	19.47	20.23	18.81
6/27/2007 0:09		12.79	19.57	20.23	18.71
6/27/2007 0:09		12.79	19.66	20.23	18.33
6/27/2007 0:09		12.79	19.76	20.23	18.71
6/27/2007 0:09		12.79	19.85	20.23	22.72
6/27/2007 0:10		12.79	19.85	20.23	27.67
6/27/2007 0:10		12.79	19.85	20.23	22.81
6/27/2007 0:10		12.79	19.95	20.23	21.38
6/27/2007 0:10		12.79	20.04	20.23	26
6/27/2007 0:11		12.79	20.04	20.23	25.22
6/27/2007 0:11		12.79	20.14	20.23	32.09
6/27/2007 0:11		12.79	20.04	20.33	26
6/27/2007 0:11		12.79	20.04	20.33	24.35
6/27/2007 0:12		12.79	20.14	20.33	33.12
6/27/2007 0:12		12.88	20.14	20.33	27.57
6/27/2007 0:12		12.88	20.23	20.42	31.06
6/27/2007 0:12		12.88	20.23	20.42	28.46
6/27/2007 0:13		12.88	20.33	20.42	27.67
6/27/2007 0:13		12.88	20.42	20.42	28.66
6/27/2007 0:13		12.88	20.33	20.42	31.06
6/27/2007 0:13		12.88	20.33	20.42	26.78
6/27/2007 0:14		12.88	20.42	20.42	24.26
6/27/2007 0:14		12.88	20.42	20.42	24.06
6/27/2007 0:14		12.88	20.52	20.42	24.06
6/27/2007 0:14		12.88	20.42	20.42	24.35
6/27/2007 0:15		12.88	20.42	20.33	25.13
6/27/2007 0:15		12.88	20.42	20.42	25.13
6/27/2007 0:15		12.88	20.52	20.42	26.78
6/27/2007 0:15		12.88	20.52	20.42	26
6/27/2007 0:16		12.98	20.42	20.42	25.32
6/27/2007 0:16		12.98	20.33	20.42	26.59
6/27/2007 0:16		12.98	20.33	20.42	26.1
6/27/2007 0:16		12.98	20.42	20.42	26
6/27/2007 0:17		12.98	20.42	20.42	25.71
6/27/2007 0:17		12.98	20.52	20.42	26.78
6/27/2007 0:17		12.98	20.42	20.52	26.39
6/27/2007 0:17		12.98	20.52	20.52	25.32
6/27/2007 0:18		12.98	20.62	20.52	24.35
6/27/2007 0:18		12.98	20.52	20.52	23.68
6/27/2007 0:18		12.98	20.62	20.52	22.91
6/27/2007 0:18		12.98	20.71	20.62	22.24
6/27/2007 0:19		12.98	20.81	20.62	21.57
6/27/2007 0:19		12.98	20.81	20.62	21.09
6/27/2007 0:19		12.98	20.71	20.62	20.62
6/27/2007 0:19		13.08	20.71	20.62	20.33
6/27/2007 0:20		13.08	20.71	20.62	20.04
6/27/2007 0:20		13.08	20.81	20.62	19.76
6/27/2007 0:20		13.08	20.81	20.62	19.09
6/27/2007 0:20		13.08	20.71	20.62	18.43
6/27/2007 0:21		13.08	20.62	20.62	18.43
6/27/2007 0:21		13.08	20.71	20.52	18.52
6/27/2007 0:21		13.08	20.71	20.52	18.43
6/27/2007 0:21		13.08	20.71	20.62	18.33
6/27/2007 0:22		13.08	20.62	20.52	18.05
6/27/2007 0:22		13.08	20.42	20.52	18.24
6/27/2007 0:22		13.08	20.42	20.52	17.86
6/27/2007 0:22		13.08	20.42	20.52	17.57
6/27/2007 0:23		13.08	20.42	20.52	17.38
6/27/2007 0:23		13.08	20.42	20.52	17.48
6/27/2007 0:23		13.08	20.33	20.52	17.48
6/27/2007 0:23		13.08	20.33	20.52	17.19
6/28/2007 0:00		13.17	20.23	20.52	17.19
6/28/2007 0:00		13.17	20.14	20.42	17.09
6/28/2007 0:00		13.17	20.14	20.52	16.71
6/28/2007 0:01		13.17	20.14	20.62	16.24
6/28/2007 0:01		13.17	20.23	20.62	15.57
6/28/2007 0:01		13.17	20.23	20.62	15.47
6/28/2007 0:01		13.17	20.23	20.62	15.66
6/28/2007 0:02		13.17	20.14	20.52	15.57
6/28/2007 0:02		13.17	20.14	20.52	15.47
6/28/2007 0:02		13.17	20.14	20.52	15.47
6/28/2007 0:02		13.17	20.04	20.42	15.57
6/28/2007 0:03		13.17	20.04	20.42	15.38
6/28/2007 0:03		13.17	19.95	20.42	15.38
6/28/2007 0:03		13.27	19.85	20.33	15.19
6/28/2007 0:03		13.27	19.85	20.33	15
6/28/2007 0:04		13.27	19.95	20.33	14.61
6/28/2007 0:04		13.27	19.95	20.33	13.65
6/28/2007 0:04		13.27	19.95	20.33	13.17
6/28/2007 0:04		13.27	19.95	20.33	12.5

6/28/2007 0:05		13.27	19.95	20.33	11.92
6/28/2007 0:05		13.27	20.04	20.33	11.92
6/28/2007 0:05		13.27	20.04	20.33	11.92
6/28/2007 0:05		13.27	20.04	20.33	12.21
6/28/2007 0:06		13.27	20.04	20.33	13.17
6/28/2007 0:06		13.27	20.04	20.33	14.42
6/28/2007 0:06		13.37	19.95	20.33	15.38
6/28/2007 0:06		13.37	19.95	20.52	15.95
6/28/2007 0:07		13.37	19.95	20.52	16.43
6/28/2007 0:07		13.37	19.95	20.52	17.57
6/28/2007 0:07		13.37	19.95	20.52	17.38
6/28/2007 0:07		13.37	19.95	20.52	18.24
6/28/2007 0:08		13.37	20.04	20.42	23.1
6/28/2007 0:08		13.37	20.04	20.42	28.16
6/28/2007 0:08		13.37	20.14	20.42	28.36
6/28/2007 0:08		13.37	20.14	20.42	28.36
6/28/2007 0:09		13.37	20.14	20.42	22.53
6/28/2007 0:09		13.37	20.23	20.42	22.05
6/28/2007 0:09		13.37	20.23	20.33	24.06
6/28/2007 0:09		13.37	20.33	20.33	24.64
6/28/2007 0:10		13.46	20.42	20.33	25.03
6/28/2007 0:10		13.46	20.33	20.33	31.37
6/28/2007 0:10		13.46	20.42	20.33	31.06
6/28/2007 0:10		13.46	20.42	20.33	26.2
6/28/2007 0:11		13.46	20.52	20.33	25.81
6/28/2007 0:11		13.46	20.62	20.33	29.95
6/28/2007 0:11		13.46	20.52	20.33	32.5
6/28/2007 0:11		13.46	20.52	20.33	34.59
6/28/2007 0:12		13.46	20.62	20.33	34.06
6/28/2007 0:12		13.46	20.62	20.42	33.85
6/28/2007 0:12		13.46	20.71	20.42	35.97
6/28/2007 0:12		13.46	20.81	20.52	34.59
6/28/2007 0:13		13.46	20.9	20.52	35.86
6/28/2007 0:13		13.56	20.9	20.52	35.44
6/28/2007 0:13		13.56	20.81	20.52	37.27
6/28/2007 0:13		13.56	20.9	20.52	36.95
6/28/2007 0:14		13.56	21	20.52	31.06
6/28/2007 0:14		13.56	21.19	20.52	27.96
6/28/2007 0:14		13.56	20.9	20.52	26.49
6/28/2007 0:14		13.56	21	20.52	25.32
6/28/2007 0:15		13.56	21.09	20.52	25.13
6/28/2007 0:15		13.56	21	20.42	24.55
6/28/2007 0:15		13.56	20.81	20.42	25.42
6/28/2007 0:15		13.56	20.81	20.42	26.39
6/28/2007 0:16		13.65	20.81	20.33	26.68
6/28/2007 0:16		13.65	20.71	20.33	27.47
6/28/2007 0:16		13.65	20.52	20.33	27.76
6/28/2007 0:16		13.65	20.52	20.33	27.96
6/28/2007 0:17		13.65	20.52	20.42	27.86
6/28/2007 0:17		13.65	20.62	20.42	27.57
6/28/2007 0:17		13.65	20.62	20.42	27.96
6/28/2007 0:17		13.65	20.52	20.42	27.96
6/28/2007 0:18		13.65	20.52	20.42	27.86
6/28/2007 0:18		13.65	20.52	20.52	26.78
6/28/2007 0:18		13.65	20.62	20.52	26
6/28/2007 0:18		13.75	20.71	20.62	24.93
6/28/2007 0:19		13.75	20.71	20.62	24.16
6/28/2007 0:19		13.75	20.81	20.62	23.48
6/28/2007 0:19		13.75	20.71	20.62	22.91
6/28/2007 0:19		13.75	20.71	20.52	22.81
6/28/2007 0:20		13.75	20.81	20.52	21.86
6/28/2007 0:20		13.75	20.81	20.52	20.62
6/28/2007 0:20		13.75	20.9	20.52	19.85
6/28/2007 0:20		13.75	20.71	20.52	19.38
6/28/2007 0:21		13.85	20.71	20.52	18.33
6/28/2007 0:21		13.75	20.71	20.52	18.33
6/28/2007 0:21		13.85	20.71	20.52	18.81
6/28/2007 0:21		13.85	20.71	20.52	18.05
6/28/2007 0:22		13.85	20.62	20.52	17.38
6/28/2007 0:22		13.85	20.62	20.62	16.33
6/28/2007 0:22		13.85	20.62	20.52	16.05
6/28/2007 0:22		13.85	20.62	20.52	15.76
6/28/2007 0:23		13.85	20.62	20.52	15.76
6/28/2007 0:23		13.85	20.52	20.52	14.9
6/28/2007 0:23		13.85	20.52	20.52	14.9
6/28/2007 0:23		13.85	20.52	20.52	15.47
6/29/2007 0:00		13.85	20.42	20.52	15.86
6/29/2007 0:00		13.94	20.33	20.52	16.24
6/29/2007 0:00		13.94	20.33	20.52	16.14
6/29/2007 0:00		13.94	20.23	20.52	16.05
6/29/2007 0:01		13.94	20.23	20.52	15.66
6/29/2007 0:01		13.94	20.14	20.52	14.61
6/29/2007 0:01		13.94	20.04	20.42	14.33
6/29/2007 0:01		13.94	19.95	20.42	13.85
6/29/2007 0:02		13.94	19.85	20.42	13.85
6/29/2007 0:02		13.94	19.76	20.42	14.33
6/29/2007 0:02		14.04	19.66	20.33	14.13
6/29/2007 0:02		14.04	19.66	20.33	13.85
6/29/2007 0:03		14.04	19.76	20.33	13.37

6/29/2007 0:03		14.04	19.66	20.33	11.82
6/29/2007 0:03		14.04	19.57	20.23	11.63
6/29/2007 0:03		14.04	19.47	20.23	11.92
6/29/2007 0:04		14.04	19.57	20.14	11.33
6/29/2007 0:04		14.04	19.57	20.14	11.04
6/29/2007 0:04		14.04	19.38	20.14	11.14
6/29/2007 0:04		14.04	19.28	20.14	12.01
6/29/2007 0:05		14.13	19.19	20.04	13.08
6/29/2007 0:05		14.13	19.09	20.04	12.01
6/29/2007 0:05		14.13	19.19	20.04	12.4
6/29/2007 0:05		14.13	19	20.04	11.53
6/29/2007 0:06		14.13	18.81	19.95	12.21
6/29/2007 0:06		14.13	19	19.85	14.71
6/29/2007 0:06		14.13	18.9	19.76	18.05
6/29/2007 0:06		14.13	18.71	19.66	19.85
6/29/2007 0:07		14.13	18.52	19.66	23.29
6/29/2007 0:07		14.13	18.33	19.57	24.45
6/29/2007 0:07		14.23	18.14	19.57	25.13
6/29/2007 0:07		14.23	18.43	19.47	27.67
6/29/2007 0:08		14.23	18.71	19.95	29.65
6/29/2007 0:08		14.23	18.62	19.95	31.37
6/29/2007 0:08		14.23	18.62	20.04	32.09
6/29/2007 0:08		14.23	19	20.04	31.68
6/29/2007 0:09		14.23	19	19.95	32.6
6/29/2007 0:09		14.23	19	19.95	33.74
6/29/2007 0:09		14.23	19.09	19.95	32.5
6/29/2007 0:09		14.23	19.09	19.95	27.27
6/29/2007 0:10		14.23	19.38	19.95	30.15
6/29/2007 0:10		14.33	19.47	19.95	33.54
6/29/2007 0:10		14.33	19.47	19.95	33.43
6/29/2007 0:10		14.33	19.57	19.95	33.33
6/29/2007 0:11		14.33	19.66	19.95	33.85
6/29/2007 0:11		14.33	19.76	19.95	33.95
6/29/2007 0:11		14.33	19.85	19.95	34.9
6/29/2007 0:11			20.04	19.95	32.91
6/29/2007 0:12					
6/29/2007 0:12		14.04			35.54
6/29/2007 0:12		13.94			35.44
6/29/2007 0:12		14.04			36.08
6/29/2007 0:13		14.04	23.68	22.14	36.95
6/29/2007 0:13		14.04	22.53	22.53	37.6
6/29/2007 0:13		14.04	22.81	21.66	38.05
6/29/2007 0:13		14.04	22.81	21.19	40.19
6/29/2007 0:14		14.04	22.72	21	41.81
6/29/2007 0:14		14.04	22.43	20.9	40.99
6/29/2007 0:14		14.04	21.66	20.81	36.84
6/29/2007 0:14		14.04	21.19	20.81	32.39
6/29/2007 0:15		14.04	21	20.71	30.15
6/29/2007 0:15		14.04	20.71	20.71	29.85
6/29/2007 0:15		14.13	20.71	20.71	29.55
6/29/2007 0:15		14.13	20.62	20.71	29.65
6/29/2007 0:16		14.13	20.52	20.71	30.05
6/29/2007 0:16		14.13	20.52	20.71	34.48
6/29/2007 0:16		14.13	20.52	20.62	35.22
6/29/2007 0:16		14.13	20.52	20.62	31.27
6/29/2007 0:17		14.13	20.52	20.62	31.57
6/29/2007 0:17		14.13	20.52	20.62	32.5
6/29/2007 0:17		14.23	20.52	20.62	41.58
6/29/2007 0:17		14.23	20.62	20.62	29.25
6/29/2007 0:18		14.23	20.62	20.62	28.26
6/29/2007 0:18		14.23	20.62	20.62	28.06
6/29/2007 0:18		14.23	20.42	21.09	27.96
6/29/2007 0:18		14.23	20.42	21.09	28.06
6/29/2007 0:19		14.23	20.62	21.19	27.37
6/29/2007 0:19		14.33	20.62	21.19	25.9
6/29/2007 0:19		14.33	20.62	21.28	25.61
6/29/2007 0:19		14.33	20.62	20.81	25.51
6/29/2007 0:20		14.33	20.71	20.71	23.97
6/29/2007 0:20		14.33	20.62	20.71	23
6/29/2007 0:20		14.42	20.71	20.71	22.33
6/29/2007 0:20		14.42	20.62	20.62	21.47
6/29/2007 0:21		14.42	20.62	20.62	20.42
6/29/2007 0:21		14.42	20.62	20.62	19.76
6/29/2007 0:21		14.42	20.62	20.62	19.09
6/29/2007 0:21		14.42	20.62	20.62	18.81
6/29/2007 0:22		14.52	20.71	20.62	18.33
6/29/2007 0:22		14.52	20.62	20.62	17.57
6/29/2007 0:22		14.52	20.62	20.62	17.09
6/29/2007 0:22		14.52	20.62	20.52	16.43
6/29/2007 0:23		14.52	20.62	20.52	16.14
6/29/2007 0:23		14.61	20.62	20.52	16.05
6/29/2007 0:23		14.61	20.52	20.52	15.86
6/29/2007 0:23		14.61	20.52	20.52	16.43
6/30/2007 0:00		14.61	20.52	20.52	16.05
6/30/2007 0:00		14.61	20.52	20.52	16.24
6/30/2007 0:00		14.61	20.42	20.71	15.38
6/30/2007 0:00		14.61	20.42	20.71	15
6/30/2007 0:01		14.71	20.42	20.71	15.66
6/30/2007 0:01		14.71	20.42	20.81	15.66

6/30/2007 0:01		14.71	20.33	20.81	15.47
6/30/2007 0:01		14.71	20.33	20.71	15.47
6/30/2007 0:02		14.71	20.33	20.62	14.42
6/30/2007 0:02		14.71	20.33	20.62	13.94
6/30/2007 0:02		14.8	20.23	20.62	13.75
6/30/2007 0:02		14.8	20.23	20.52	13.85
6/30/2007 0:03		14.8	20.23	20.52	13.37
6/30/2007 0:03		14.8	20.14	20.52	13.75
6/30/2007 0:03		14.8	20.14	20.42	12.79
6/30/2007 0:03		14.8	20.14	20.42	12.69
6/30/2007 0:04		14.9	20.14	20.42	12.5
6/30/2007 0:04		14.9	20.14	20.33	12.01
6/30/2007 0:04		14.9	20.04	20.33	11.33
6/30/2007 0:04		14.9	20.04	20.33	11.43
6/30/2007 0:05		14.9	20.04	20.33	11.14
6/30/2007 0:05		14.9	20.04	20.33	11.14
6/30/2007 0:05		14.9	19.95	20.23	11.53
6/30/2007 0:05		15	19.95	20.23	11.24
6/30/2007 0:06		15	19.95	20.23	10.85
6/30/2007 0:06		15	19.95	20.23	11.92
6/30/2007 0:06		15	19.85	20.14	15.47
6/30/2007 0:06		15	19.95	20.23	19.19
6/30/2007 0:07		15	19.85	20.23	22.53
6/30/2007 0:07		15	19.85	20.23	23.97
6/30/2007 0:07		15	19.76	20.14	23.77
6/30/2007 0:07		15	19.76	20.14	27.47
6/30/2007 0:08		15.09	19.85	20.14	29.75
6/30/2007 0:08		15.09	19.85	20.04	32.09
6/30/2007 0:08		15.09	19.85	20.04	32.81
6/30/2007 0:08		15.09	19.57	20.04	33.12
6/30/2007 0:09		15.09	19.66	19.85	33.22
6/30/2007 0:09		15.09	19.76	19.95	33.54
6/30/2007 0:09		15.09	19.85	19.95	33.64
6/30/2007 0:09		15.09	19.76	19.95	33.22
6/30/2007 0:10		15.19	19.85	19.95	30.66
6/30/2007 0:10		15.19	19.95	19.85	31.88
6/30/2007 0:10		15.19	19.95	19.95	35.01
6/30/2007 0:10		15.19	19.95	20.04	36.62
6/30/2007 0:11		15.19	19.95	20.04	38.16
6/30/2007 0:11		15.19	20.04	20.04	36.4
6/30/2007 0:11		15.28	20.04	20.04	36.84
6/30/2007 0:11		15.28	20.14	20.04	38.71
6/30/2007 0:12		15.28	20.14	20.04	41.23
6/30/2007 0:12		15.28	20.14	20.04	38.94
6/30/2007 0:12		15.28	20.14	20.14	41.46
6/30/2007 0:12		15.28	20.23	20.14	40.65
6/30/2007 0:13		15.38	20.33	20.14	40.99
6/30/2007 0:13		15.38	20.33	20.14	42.4
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6/30/2007 0:13		15.38	20.42	20.14	41.34
6/30/2007 0:14		15.47	20.42	20.14	43.24
6/30/2007 0:14		15.47	20.52	20.14	42.52
6/30/2007 0:14		15.47	20.62	20.23	42.88
6/30/2007 0:14		15.47	20.62	20.23	43.12
6/30/2007 0:15		15.57	20.62	20.23	43.36
6/30/2007 0:15		15.57	20.81	20.23	43.72
6/30/2007 0:15		15.57	20.81	20.33	44.33
6/30/2007 0:15		15.66	20.71	20.33	44.33
6/30/2007 0:16		15.66	20.81	20.33	44.33
6/30/2007 0:16		15.66	20.9	20.33	44.46
6/30/2007 0:16		15.66	21	20.33	41.11
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6/30/2007 0:17		15.76	21	20.33	39.16
6/30/2007 0:17		15.76	21.09	20.42	43.72
6/30/2007 0:17		15.86	21.09	20.33	44.09
6/30/2007 0:17		15.86	21.19	20.42	43.36
6/30/2007 0:18		15.86	21.19	20.42	40.53
6/30/2007 0:18		15.86	21.19	20.52	36.62
6/30/2007 0:18		15.95	21.19	20.9	35.97
6/30/2007 0:18		15.95	21.28	20.9	33.33
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6/30/2007 0:19		16.05	21.38	20.62	34.8
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6/30/2007 0:19		16.05	21.28	20.62	33.01
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6/30/2007 0:22		16.24	21.38	20.71	23.48
6/30/2007 0:22		16.24	21.38	20.71	23.97
6/30/2007 0:22		16.24	21.38	20.71	23.87
6/30/2007 0:22		16.33	21.38	20.71	23.58
6/30/2007 0:23		16.33	21.38	20.81	23
6/30/2007 0:23		16.33	21.28	20.9	23.1
6/30/2007 0:23		16.33	21.28	21	22.72

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7/1/2007 0:00		16.33	21.19	21	21
7/1/2007 0:00		16.43	21.19	21	20.23
7/1/2007 0:00		16.43	21.28	20.81	19.66
7/1/2007 0:00		16.43	21.19	20.71	19.19
7/1/2007 0:01		16.43	21.19	20.71	18.52
7/1/2007 0:01		16.43	21.19	20.71	18.33
7/1/2007 0:01		16.43	21.19	20.71	17.19
7/1/2007 0:01		16.43	21.19	20.81	17.28
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7/1/2007 0:02		16.43	21.09	20.81	16.62
7/1/2007 0:02		16.43	21.09	20.81	16.81
7/1/2007 0:02		16.43	21.09	20.81	17.19
7/1/2007 0:03		16.43	21.09	20.81	17.67
7/1/2007 0:03		16.43	21	20.81	16.81
7/1/2007 0:03		16.43	21	20.71	18.71
7/1/2007 0:03		16.43	21	20.71	17.57
7/1/2007 0:04		16.43	20.9	20.81	17.76
7/1/2007 0:04		16.43	20.9	20.81	17.19
7/1/2007 0:04		16.52	20.81	20.81	17
7/1/2007 0:04		16.52	20.81	20.71	16.9
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7/1/2007 0:05		16.43	20.71	20.71	15.66
7/1/2007 0:05		16.52	20.71	20.71	15.19
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7/1/2007 0:06		16.43	20.62	20.71	14.61
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7/1/2007 0:07		16.43	20.62	20.71	21.57
7/1/2007 0:07		16.43	20.62	20.71	26.29
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7/1/2007 0:08		16.43	20.62	20.71	32.09
7/1/2007 0:08		16.52	20.62	20.71	33.01
7/1/2007 0:08		16.52	20.52	20.71	32.7
7/1/2007 0:08		16.52	20.62	20.71	31.37
7/1/2007 0:09		16.52	20.62	20.62	33.74
7/1/2007 0:09		16.52	20.52	20.62	36.08
7/1/2007 0:09		16.52	20.62	20.62	37.71
7/1/2007 0:09		16.52	20.52	20.62	35.33
7/1/2007 0:10		16.52	20.52	20.62	33.22
7/1/2007 0:10		16.62	20.62	20.62	35.22
7/1/2007 0:10		16.62	20.62	20.62	37.06
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7/1/2007 0:11		16.62	20.71	20.71	38.38
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7/1/2007 0:11		16.71	20.81	20.71	39.05
7/1/2007 0:12		16.71	20.9	20.71	38.94
7/1/2007 0:12		16.81	20.9	20.81	39.39
7/1/2007 0:12		16.81	21	20.81	41.23
7/1/2007 0:12		16.81	21.09	20.81	41.93
7/1/2007 0:13		16.9	21.09	20.81	42.52
7/1/2007 0:13		16.9	21.19	20.81	41.34
7/1/2007 0:13		17	21.19	20.81	41.58
7/1/2007 0:13		17	21.19	20.81	42.28
7/1/2007 0:14		17	21.19	20.81	42.05
7/1/2007 0:14		17	21.28	20.9	42.52
7/1/2007 0:14		17.09	21.38	20.9	43.84
7/1/2007 0:14		17.09	21.38	21	44.58
7/1/2007 0:15		17.19	21.38	21	43.48
7/1/2007 0:15		17.19	21.47	21	45.83
7/1/2007 0:15		17.19	21.47	21	46.34
7/1/2007 0:15		17.19	21.57	21	45.45
7/1/2007 0:16		17.28	21.57	21	46.34
7/1/2007 0:16		17.28	21.66	21	47.63
7/1/2007 0:16		17.28	21.76	21	43.84
7/1/2007 0:16		17.38	21.76	21	45.08
7/1/2007 0:17		17.38	21.76	21.09	48.29
7/1/2007 0:17		17.38	21.86	21.09	48.42
7/1/2007 0:17		17.38	21.86	21.19	49.23
7/1/2007 0:17		17.48	21.86	21.28	47.11
7/1/2007 0:18		17.48	21.86	21.38	44.46
7/1/2007 0:18		17.48	21.95	21.28	38.71
7/1/2007 0:18		17.48	21.76	21.57	43.48
7/1/2007 0:18		17.57	21.86	21.38	44.58
7/1/2007 0:19		17.57	22.05	21.38	41.34
7/1/2007 0:19		17.57	22.05	21.38	39.5
7/1/2007 0:19		17.57	22.05	21.47	33.22
7/1/2007 0:19		17.57	21.95	21.47	30.86
7/1/2007 0:20		17.57	22.05	21.47	28.46
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7/1/2007 0:21		17.67	22.05	21.57	24.74
7/1/2007 0:21		17.67	22.05	21.57	23.77
7/1/2007 0:21		17.67	22.05	21.57	22.53
7/1/2007 0:21		17.67	22.05	21.66	22.24

7/1/2007 0:22		17.67	22.14	21.76	23.29
7/1/2007 0:22		17.67	22.14	21.95	24.06
7/1/2007 0:22		17.67	22.33	22.14	23.29
7/1/2007 0:22		17.67	22.24	21.95	22.53
7/1/2007 0:23		17.67	22.24	21.86	21.95
7/1/2007 0:23		17.67	22.14	21.76	21.47
7/1/2007 0:23		17.67	22.24	21.86	21.28
7/1/2007 0:23		17.67	22.14	21.76	21
7/2/2007 0:00		17.67	22.14	21.57	20.52
7/2/2007 0:00		17.67	22.05	21.57	20.33
7/2/2007 0:00		17.67	22.05	21.76	19.76
7/2/2007 0:00		17.67	22.05	21.86	19.09
7/2/2007 0:01		17.67	22.05	21.95	17.76
7/2/2007 0:01		17.67	21.95	22.05	17.38
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7/2/2007 0:01		17.67	22.05	21.86	16.62
7/2/2007 0:02		17.67	21.95	21.76	17.19
7/2/2007 0:02		17.57	21.95	21.76	17
7/2/2007 0:02		17.57	21.95	21.76	17.28
7/2/2007 0:02		17.57	21.95	21.76	17.19
7/2/2007 0:03		17.57	21.86	21.76	17.38
7/2/2007 0:03		17.57	21.86	21.66	17.48
7/2/2007 0:03		17.57	21.86	21.66	16.62
7/2/2007 0:03		17.57	21.86	21.66	17
7/2/2007 0:04		17.57	21.86	21.66	17.28
7/2/2007 0:04		17.57	21.76	21.66	17.38
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7/2/2007 0:04		17.57	21.66	21.66	17.76
7/2/2007 0:05		17.57	21.66	21.66	16.9
7/2/2007 0:05		17.57	21.66	21.66	16.43
7/2/2007 0:05		17.57	21.66	21.66	17.19
7/2/2007 0:05		17.57	21.57	21.86	18.81
7/2/2007 0:06		17.57	21.57	21.86	18.71
7/2/2007 0:06		17.57	21.57	21.86	19.09
7/2/2007 0:07		17.48	21.57	21.86	18.81
7/2/2007 0:07		17.48	21.57	21.86	19.09
7/2/2007 0:07		17.48	21.57	21.86	18.81
7/2/2007 0:07		17.57	21.47	21.86	20.9
7/2/2007 0:07		17.48	21.38	21.86	24.45
7/2/2007 0:07		17.48	21.38	21.76	30.36
7/2/2007 0:08		17.57	21.38	21.86	31.47
7/2/2007 0:08		17.48	21.38	21.86	32.5
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7/2/2007 0:09		17.57	21.47	21.86	35.01
7/2/2007 0:09		17.57	21.38	21.86	35.86
7/2/2007 0:09		17.57	21.38	21.86	38.71
7/2/2007 0:09		17.57	21.38	21.95	38.83
7/2/2007 0:10		17.67	21.47	21.95	34.37
7/2/2007 0:10		17.67	21.47	22.05	36.08
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7/2/2007 0:10		17.67	21.47	22.05	40.76
7/2/2007 0:11		17.76	21.47	22.05	40.65
7/2/2007 0:11		17.76	21.57	22.05	41.11
7/2/2007 0:11		17.76	21.57	22.05	41.58
7/2/2007 0:11		17.86	21.66	21.95	41.58
7/2/2007 0:12		17.86	21.66	21.95	41.46
7/2/2007 0:12		17.86	21.66	22.05	43
7/2/2007 0:12		17.95	21.76	22.24	41.69
7/2/2007 0:12		17.95	22.05	22.24	42.52
7/2/2007 0:13		17.95	21.95	22.33	41.69
7/2/2007 0:13		17.95	21.95	22.24	41.23
7/2/2007 0:13		18.05	21.95	22.24	42.05
7/2/2007 0:13		18.05	22.05	22.24	42.4
7/2/2007 0:14		18.05	22.05	22.24	42.76
7/2/2007 0:14		18.05	22.14	22.24	43
7/2/2007 0:14		18.05	22.14	22.24	44.09
7/2/2007 0:14		18.14	22.24	22.33	44.46
7/2/2007 0:15		18.14	22.24	22.43	44.83
7/2/2007 0:15		18.14	22.33	22.43	43.97
7/2/2007 0:15		18.14	22.33	22.43	45.33
7/2/2007 0:15		18.14	22.43	22.43	45.08
7/2/2007 0:16		18.24	22.43	22.43	46.21
7/2/2007 0:16		18.24	22.43	22.43	44.95
7/2/2007 0:16		18.24	22.43	22.43	44.83
7/2/2007 0:16		18.24	22.62	22.43	43.97
7/2/2007 0:17		18.24	22.62	22.43	44.83
7/2/2007 0:17		18.24	22.62	22.43	43.36
7/2/2007 0:17		18.33	22.72	22.43	43.48
7/2/2007 0:17		18.33	22.62	22.43	43.24
7/2/2007 0:18		18.33	22.62	22.53	42.16
7/2/2007 0:18		18.33	22.72	22.62	36.73
7/2/2007 0:18		18.33	22.53	22.81	40.99
7/2/2007 0:18		18.33	22.62	22.91	41.11
7/2/2007 0:19		18.33	22.72	22.91	39.39
7/2/2007 0:19		18.33	22.81	23	38.71
7/2/2007 0:19		18.33	22.81	23.1	37.06
7/2/2007 0:19		18.33	22.91	23.2	33.85
7/2/2007 0:20		18.33	22.81	22.91	31.17

7/2/2007 0:20		18.33	22.81	22.81	27.27
7/2/2007 0:20		18.33	22.81	22.81	24.64
7/2/2007 0:20		18.33	22.81	22.81	23.29
7/2/2007 0:21		18.33	22.81	22.72	23.2
7/2/2007 0:21		18.33	22.81	22.72	23.2
7/2/2007 0:21		18.33	22.81	22.72	21.95
7/2/2007 0:21		18.33	22.62	22.72	21.76
7/2/2007 0:22		18.33	22.62	22.72	22.14
7/2/2007 0:22		18.33	22.62	22.62	21.57
7/2/2007 0:22		18.33	22.62	22.62	21.38
7/2/2007 0:22		18.33	22.62	22.53	20.71
7/2/2007 0:23		18.33	22.62	22.62	20.9
7/2/2007 0:23		18.24	22.53	22.62	20.9
7/2/2007 0:23		18.24	22.53	22.72	20.71
7/2/2007 0:23		18.24	22.53	22.72	20.62
7/3/2007 0:00		18.24	22.43	22.81	23
7/3/2007 0:00		18.24	22.43	22.81	21.66
7/3/2007 0:00		18.24	22.33	22.91	19.76
7/3/2007 0:00		18.24	22.33	22.91	19.95
7/3/2007 0:01		18.24	22.33	22.81	18.81
7/3/2007 0:01		18.24	22.24	22.72	18.24
7/3/2007 0:01		18.24	22.24	22.72	19.09
7/3/2007 0:01		18.24	22.24	22.72	18.05
7/3/2007 0:02		18.24	22.14	22.62	18.05
7/3/2007 0:02		18.24	22.05	22.62	17.57
7/3/2007 0:02		18.24	22.05	22.62	17.48
7/3/2007 0:02		18.24	22.05	22.62	17.76
7/3/2007 0:03		18.24	21.95	22.62	18.05
7/3/2007 0:03		18.24	21.95	22.62	16.81
7/3/2007 0:03		18.14	21.86	22.53	17.76
7/3/2007 0:03		18.14	21.86	22.53	19.28
7/3/2007 0:04		18.14	21.76	22.43	18.43
7/3/2007 0:04		18.14	21.76	22.43	17.28
7/3/2007 0:04		18.14	21.76	22.43	17.38
7/3/2007 0:04		18.14	21.66	22.43	17.48
7/3/2007 0:05		18.14	21.66	22.33	17.38
7/3/2007 0:05		18.14	21.66	22.33	17.28
7/3/2007 0:05		18.14	21.66	22.33	15.95
7/3/2007 0:05		18.14	21.66	22.33	16.05
7/3/2007 0:06		18.14	21.66	22.33	15.38
7/3/2007 0:06		18.14	21.57	22.33	15.19
7/3/2007 0:06		18.14	21.57	22.24	16.24
7/3/2007 0:06		18.05	21.57	22.24	18.62
7/3/2007 0:07		18.05	21.57	22.24	22.33
7/3/2007 0:07		18.05	21.47	22.24	27.96
7/3/2007 0:07		18.14	21.47	22.24	29.65
7/3/2007 0:07		18.05	21.47	22.14	33.43
7/3/2007 0:08		18.14	21.47	22.14	35.76
7/3/2007 0:08		18.14	21.47	22.14	36.62
7/3/2007 0:08		18.14	21.38	22.33	37.82
7/3/2007 0:08		18.14	21.38	22.33	38.83
7/3/2007 0:09		18.14	21.09	22.33	39.16
7/3/2007 0:09		18.24	21.19	22.33	39.62
7/3/2007 0:09		18.24	21.28	22.33	39.84
7/3/2007 0:09		18.24	21.19	22.33	39.16
7/3/2007 0:10		18.24	21.19	22.33	35.44
7/3/2007 0:10		18.24	21.28	22.33	37.71
7/3/2007 0:10		18.33	21.38	22.24	39.96
7/3/2007 0:10		18.33	21.47	22.24	41.58
7/3/2007 0:11		18.33	21.47	22.24	42.88
7/3/2007 0:11		18.43	21.47	22.24	44.33
7/3/2007 0:11		18.43	21.47	22.24	45.2
7/3/2007 0:11		18.43	21.57	22.14	43.72
7/3/2007 0:12		17.86	21.66	22.24	45.58
7/3/2007 0:12		17.28	22.14	22.53	39.16
7/3/2007 0:12		18.14	22.91	23.87	37.82
7/3/2007 0:12		18.24	22.33	23.87	37.27
7/3/2007 0:13		18.43	22.53	23.58	34.59
7/3/2007 0:13		18.43	22.72	23.2	34.8
7/3/2007 0:13		18.52	22.91	23.1	33.22
7/3/2007 0:13		18.52	23	23	33.54
7/3/2007 0:14		18.62	23.2	23	39.28
7/3/2007 0:14		18.62	23.39	23	40.53
7/3/2007 0:14		18.62	23.2	23	40.76
7/3/2007 0:14		18.62	23	23	39.16
7/3/2007 0:15		18.71	23.29	23	36.3
7/3/2007 0:15		18.71	22.81	23	37.6
7/3/2007 0:15		18.71	22.53	23.1	29.85
7/3/2007 0:15		18.71	22.62	23.1	30.66
7/3/2007 0:16		18.71	22.72	23.1	33.95
7/3/2007 0:16		18.71	23.1	23.1	30.86
7/3/2007 0:16		18.71	22.81	23.1	27.67
7/3/2007 0:16		18.71	22.72	23.2	26
7/3/2007 0:17		18.71	22.72	23.2	25.22
7/3/2007 0:17		18.71	22.81	23.29	24.45
7/3/2007 0:17		18.71	22.91	23.39	21.95
7/3/2007 0:17		18.71	22.91	23.48	20.04
7/3/2007 0:18		18.71	22.72	23.58	19.28
7/3/2007 0:18		18.71	22.72	23.58	19.57

7/3/2007 0:18		18.71	22.72	23.68	20.62
7/3/2007 0:18		18.71	22.72	23.87	20.23
7/3/2007 0:19		18.71	22.62	23.58	19.66
7/3/2007 0:19		18.71	22.53	23.48	20.71
7/3/2007 0:19		18.71	22.53	23.39	21.47
7/3/2007 0:19		18.71	22.43	23.29	21.76
7/3/2007 0:20		18.62	22.43	23.29	22.05
7/3/2007 0:20		18.62	22.43	23.29	21.19
7/3/2007 0:20		18.62	22.33	23.2	20.52
7/3/2007 0:20		18.62	22.33	23.2	19.66
7/3/2007 0:21		18.62	22.33	23.2	19.57
7/3/2007 0:21		18.62	22.33	23.2	19.28
7/3/2007 0:21		18.62	22.24	23.1	18.62
7/3/2007 0:21		18.52	22.24	23.1	17.86
7/3/2007 0:22		18.52	22.24	23.1	17.48
7/3/2007 0:22		18.52	22.14	23.1	18.52
7/3/2007 0:22		18.52	22.14	23.1	19.76
7/3/2007 0:22		18.52	22.05	23	19.57
7/3/2007 0:23		18.52	22.05	23	18.52
7/3/2007 0:23		18.52	22.05	23	17.38
7/3/2007 0:23		18.43	21.95	23	16.9
7/3/2007 0:23		18.43	21.86	23	17.67
7/4/2007 0:00		18.43	21.76	23	16.62
7/4/2007 0:00		18.43	21.86	23	14.61
7/4/2007 0:00		18.43	21.76	23	14.52
7/4/2007 0:00		18.43	21.76	23	16.24
7/4/2007 0:01		18.43	21.47	22.91	16.33
7/4/2007 0:01		18.43	21.47	22.91	16.9
7/4/2007 0:01		18.43	21.28	22.91	16.05
7/4/2007 0:01		18.43	20.9	22.91	15.76
7/4/2007 0:02		18.43	21.09	22.91	16.9
7/4/2007 0:02		18.43	20.81	22.81	16.9
7/4/2007 0:02		18.33	21	22.81	16.71
7/4/2007 0:02		18.33	20.81	22.72	16.9
7/4/2007 0:03		18.33	20.52	22.72	16.9
7/4/2007 0:03		18.33	20.23	22.62	16.81
7/4/2007 0:03		18.33	20.62	22.62	16.43
7/4/2007 0:03		18.33	20.33	22.53	16.33
7/4/2007 0:04		18.33	20.04	22.53	16.52
7/4/2007 0:04		18.33	20.52	22.43	15.95
7/4/2007 0:04		18.33	20.33	22.43	15.66
7/4/2007 0:04		18.33	20.04	22.33	16.14
7/4/2007 0:05		18.33	20.33	22.24	16.24
7/4/2007 0:05		18.33	19.95	22.24	15.86
7/4/2007 0:05		18.24	19.76	22.14	15.09
7/4/2007 0:05		18.24	19.57	22.14	14.8
7/4/2007 0:06		18.24	19.38	22.05	14.61
7/4/2007 0:06		18.24	19.28	22.05	14.61
7/4/2007 0:06		18.24	19.76	21.95	17.09
7/4/2007 0:06		18.24	19.47	21.95	19.38
7/4/2007 0:07		18.24	19.28	21.86	22.33
7/4/2007 0:07		18.24	19.19	21.86	25.42
7/4/2007 0:07		18.24	19.19	21.76	28.16
7/4/2007 0:07		18.24	19.19	21.76	28.66
7/4/2007 0:08		18.24	19.09	21.66	30.05
7/4/2007 0:08		18.24	19	21.66	28.26
7/4/2007 0:08		18.24	19	21.57	30.76
7/4/2007 0:08		18.24	19	21.47	33.54
7/4/2007 0:09		18.24	19	21.47	33.95
7/4/2007 0:09		18.24	19	21.38	34.06
7/4/2007 0:09		18.33	19.95	21.38	34.69
7/4/2007 0:09		18.33	19.76	21.28	34.59
7/4/2007 0:10		18.33	19.76	21.28	30.15
7/4/2007 0:10		18.33	19.76	21.19	32.5
7/4/2007 0:10		18.43	19.76	21.19	34.59
7/4/2007 0:10		18.43	19.85	21.19	34.59
7/4/2007 0:11		18.43	19.95	21.19	34.06
7/4/2007 0:11		18.43	20.62	21.19	36.19
7/4/2007 0:11		18.43	20.52	21.19	36.62
7/4/2007 0:11		18.52	20.62	21.19	37.06
7/4/2007 0:12		18.52	20.71	21.19	38.49
7/4/2007 0:12		18.52	20.81	21.28	38.38
7/4/2007 0:12		18.52	20.9	21.28	33.54
7/4/2007 0:12		18.62	21	21.38	37.6
7/4/2007 0:13		18.62	21.19	21.38	39.39
7/4/2007 0:13		18.62	21.28	21.38	36.95
7/4/2007 0:13		18.62	21.38	21.47	38.94
7/4/2007 0:13		18.71	21.57	21.57	33.95
7/4/2007 0:14		18.71	21.66	21.57	30.66
7/4/2007 0:14		18.71	21.76	21.66	39.84
7/4/2007 0:14		18.71	21.95	21.66	31.57
7/4/2007 0:14		18.71	22.05	21.76	39.39
7/4/2007 0:15		18.81	22.14	21.86	39.16
7/4/2007 0:15		18.81	22.33	21.95	38.49
7/4/2007 0:15		18.81	22.43	21.95	34.06
7/4/2007 0:15		18.81	22.43	22.05	33.01
7/4/2007 0:16		18.81	22.62	22.05	30.76
7/4/2007 0:16		18.81	22.72	22.14	29.55
7/4/2007 0:16		18.81	22.72	22.14	29.95

7/4/2007 0:16		18.81	22.81	22.24	30.26
7/4/2007 0:17		18.9	22.91	22.33	31.17
7/4/2007 0:17		18.9	23	22.33	30.76
7/4/2007 0:17		18.9	23.1	22.43	30.05
7/4/2007 0:17		18.9	23.2	22.43	29.55
7/4/2007 0:18		18.9	23	22.53	30.56
7/4/2007 0:18		18.9	23.1	22.53	31.17
7/4/2007 0:18		18.9	23.1	22.53	31.06
7/4/2007 0:18		18.9	23.1	22.62	33.95
7/4/2007 0:19		19	23	22.62	38.27
7/4/2007 0:19		19	23.1	22.62	39.16
7/4/2007 0:19		19	23.1	22.62	33.33
7/4/2007 0:19		19	23.1	22.72	36.08
7/4/2007 0:20		19	23.2	22.72	31.98
7/4/2007 0:20		19	23.2	22.72	29.25
7/4/2007 0:20		19	23.29	22.72	25.32
7/4/2007 0:20		19	23.39	22.72	23.29
7/4/2007 0:21		19	23.39	22.81	22.05
7/4/2007 0:21		19	23.48	22.81	21.95
7/4/2007 0:21		19	23.48	22.81	22.43
7/4/2007 0:21		19	23.48	22.81	20.71
7/4/2007 0:22		19	23.39	22.81	19
7/4/2007 0:22		19	23.29	22.81	18.24
7/4/2007 0:22		19	23.2	22.81	18.62
7/4/2007 0:22		19	23	22.81	18.81
7/4/2007 0:23		19	22.81	22.81	18.43
7/4/2007 0:23		19	22.62	22.72	16.81
7/4/2007 0:23		18.9	22.53	22.72	16.52
7/4/2007 0:23		18.9	22.53	22.72	16.05
7/5/2007 0:00		18.9	22.43	22.72	16.43
7/5/2007 0:00		18.9	22.24	22.72	16.24
7/5/2007 0:00		18.9	22.14	22.72	17.28
7/5/2007 0:00		18.9	22.05	22.72	17.28
7/5/2007 0:01		18.9	21.86	22.72	15.95
7/5/2007 0:01		18.9	21.76	22.72	15
7/5/2007 0:01		18.9	21.76	22.72	15.76
7/5/2007 0:01		18.9	21.66	22.62	14.9
7/5/2007 0:02		18.81	21.95	22.62	15.19
7/5/2007 0:02		18.81	21.86	22.62	14.71
7/5/2007 0:02		18.81	21.76	22.62	14.71
7/5/2007 0:02		18.81	21.57	22.62	15.28
7/5/2007 0:03		18.81	21.38	22.62	15.28
7/5/2007 0:03		18.81	21.28	22.62	15.66
7/5/2007 0:03		18.81	21.09	22.62	15.47
7/5/2007 0:03		18.81	21	22.53	15.19
7/5/2007 0:04		18.81	20.9	22.53	14.33
7/5/2007 0:04		18.81	20.81	22.53	13.56
7/5/2007 0:04		18.81	20.71	22.53	13.17
7/5/2007 0:04		18.71	20.71	22.43	14.42
7/5/2007 0:05		18.71	20.62	22.43	14.61
7/5/2007 0:05		18.71	20.42	22.43	14.61
7/5/2007 0:05		18.71	20.23	22.43	13.75
7/5/2007 0:05		18.71	20.14	22.33	13.65
7/5/2007 0:06		18.71	19.95	22.33	13.65
7/5/2007 0:06		18.71	19.85	22.33	14.71
7/5/2007 0:06		18.71	19.76	22.24	16.33
7/5/2007 0:06		18.71	19.66	22.24	19.09
7/5/2007 0:07		18.71	19.57	22.24	22.43
7/5/2007 0:07		18.71	19.47	22.14	27.76
7/5/2007 0:07		18.71	19.47	22.14	28.46
7/5/2007 0:07		18.71	19.38	22.14	32.81
7/5/2007 0:08		18.71	19.38	22.05	35.54
7/5/2007 0:08		18.71	20.23	22.05	37.27
7/5/2007 0:08		18.71	20.04	21.95	38.6
7/5/2007 0:08		18.81	19.95	21.95	38.71
7/5/2007 0:09		18.81	19.95	21.95	39.05
7/5/2007 0:09		18.81	19.85	21.95	39.84
7/5/2007 0:09		18.81	19.85	21.86	38.6
7/5/2007 0:09		18.81	19.85	21.86	37.71
7/5/2007 0:10		18.9	19.95	21.86	31.98
7/5/2007 0:10		18.9	19.95	21.86	33.85
7/5/2007 0:10		18.9	20.04	21.86	36.4
7/5/2007 0:10		18.9	20.14	21.86	35.54
7/5/2007 0:11		19	20.33	21.86	36.4
7/5/2007 0:11		19	20.42	21.86	36.62
7/5/2007 0:11		19	20.62	21.95	36.84
7/5/2007 0:11		19.09	20.81	21.95	37.6
7/5/2007 0:12		19.09	21	21.95	37.49
7/5/2007 0:12		19.09	21.09	21.95	37.49
7/5/2007 0:12		19.09	21.28	22.05	38.16
7/5/2007 0:12		19.19	21.47	22.05	38.38
7/5/2007 0:13		19.19	21.66	22.14	38.38
7/5/2007 0:13		19.19	21.76	22.14	39.96
7/5/2007 0:13		19.28	21.95	22.24	40.19
7/5/2007 0:13		19.28	22.14	22.24	41.81
7/5/2007 0:14		19.28	22.24	22.33	40.3
7/5/2007 0:14		19.28	22.33	22.33	35.54
7/5/2007 0:14		19.38	22.43	22.43	40.53
7/5/2007 0:14		19.38	22.53	22.53	40.76

7/5/2007 0:15		19.38	22.72	22.53	40.53
7/5/2007 0:15		19.38	22.81	22.62	33.74
7/5/2007 0:15		19.38	22.81	22.62	29.75
7/5/2007 0:15		19.47	22.62	22.72	30.66
7/5/2007 0:16		19.47	22.43	22.72	33.43
7/5/2007 0:16		19.47	22.14	22.81	34.06
7/5/2007 0:16		19.47	21.86	22.81	34.06
7/5/2007 0:16		19.47	21.66	22.81	33.64
7/5/2007 0:17		19.47	21.47	22.81	33.43
7/5/2007 0:17		19.47	21.38	22.81	36.51
7/5/2007 0:17		19.47	21.28	22.81	40.19
7/5/2007 0:17		19.47	21.19	22.81	41.58
7/5/2007 0:18		19.47	22.05	22.81	39.96
7/5/2007 0:18		19.47	21.95	22.72	33.64
7/5/2007 0:18		19.47	21.86	22.62	31.57
7/5/2007 0:18		19.57	21.76	22.62	29.95
7/5/2007 0:19		19.57	21.57	22.53	28.95
7/5/2007 0:19		19.57	21.47	22.53	28.56
7/5/2007 0:19		19.57	21.38	22.43	31.17
7/5/2007 0:19		19.57	21.38	22.43	31.17
7/5/2007 0:20		19.57	21.38	22.43	27.17
7/5/2007 0:20		19.57	21.38	22.43	24.74
7/5/2007 0:20		19.57	21.47	22.43	23.1
7/5/2007 0:20		19.57	21.57	22.43	22.24
7/5/2007 0:21		19.57	21.66	22.43	21.95
7/5/2007 0:21		19.57	21.66	22.43	21.86
7/5/2007 0:21		19.57	21.76	22.43	22.14
7/5/2007 0:21		19.57	21.86	22.43	21.76
7/5/2007 0:22		19.57	21.86	22.43	20.42
7/5/2007 0:22		19.47	21.95	22.53	19.09
7/5/2007 0:22		19.47	21.95	22.53	18.33
7/5/2007 0:22		19.47	22.05	22.53	18.33
7/5/2007 0:23		19.47	22.05	22.53	17.48
7/5/2007 0:23		19.47	22.05	22.53	17.09
7/5/2007 0:23		19.47	22.14	22.62	18.71
7/5/2007 0:23		19.47	22.14	22.62	17.76
7/6/2007 0:00		19.47	22.43	22.62	18.05
7/6/2007 0:00		19.47	22.53	22.72	17
7/6/2007 0:00		19.47	22.43	22.72	16.14
7/6/2007 0:00		19.47	22.33	22.72	16.43
7/6/2007 0:01		19.47	22.33	22.72	16.14
7/6/2007 0:01		19.47	22.24	22.72	15.47
7/6/2007 0:01		19.47	22.14	22.81	15.66
7/6/2007 0:01		19.47	22.05	22.81	17.57
7/6/2007 0:02		19.38	21.95	22.81	16.71
7/6/2007 0:02		19.38	21.86	22.81	16.05
7/6/2007 0:02		19.38	21.86	22.81	15.28
7/6/2007 0:02		19.38	21.76	22.81	14.52
7/6/2007 0:03		19.38	21.76	22.81	14.71
7/6/2007 0:03		19.38	21.66	22.81	14.42
7/6/2007 0:03		19.38	21.57	22.81	14.33
7/6/2007 0:03		19.38	21.57	22.81	14.8
7/6/2007 0:04		19.28	21.47	22.81	14.33
7/6/2007 0:04		19.28	21.38	22.81	14.61
7/6/2007 0:04		19.28	21.28	22.81	14.9
7/6/2007 0:04		19.28	21.19	22.81	14.52
7/6/2007 0:05		19.28	21.09	22.72	14.71
7/6/2007 0:05		19.28	21	22.72	14.71
7/6/2007 0:05		19.28	20.9	22.72	14.52
7/6/2007 0:05		19.28	20.81	22.72	14.8
7/6/2007 0:06		19.19	20.71	22.62	14.71
7/6/2007 0:06		19.28	20.62	22.62	15
7/6/2007 0:06		19.28	20.52	22.62	16.71
7/6/2007 0:06		19.28	20.42	22.62	20.33
7/6/2007 0:07		19.28	20.33	22.62	22.91
7/6/2007 0:07		19.28	20.33	22.53	26.98
7/6/2007 0:07		19.28	20.23	22.53	28.06
7/6/2007 0:07		19.28	20.23	22.53	31.17
7/6/2007 0:08		19.28	20.23	22.53	36.51
7/6/2007 0:08		19.28	20.14	22.53	37.94
7/6/2007 0:08		19.28	20.14	22.43	36.95
7/6/2007 0:08		19.28	20.14	22.43	36.95
7/6/2007 0:09		19.38	20.14	22.43	37.6
7/6/2007 0:09		19.38	20.14	22.43	37.6
7/6/2007 0:09		19.38	20.23	22.33	37.94
7/6/2007 0:09		19.38	20.23	22.33	37.27
7/6/2007 0:10		19.38	20.23	22.33	32.19
7/6/2007 0:10		19.66	20.33	22.33	35.22
7/6/2007 0:10		19.66	20.33	22.24	38.38
7/6/2007 0:10		18.62	25.51	22.24	38.38
7/6/2007 0:11		18.33	26.29	22.72	38.49
7/6/2007 0:11		16.71	22.72	23.1	39.62
7/6/2007 0:11		16.05	23.48	24.55	40.65
7/6/2007 0:11		15.86	25.13	25.42	40.42
7/6/2007 0:12		15.66	25.42	25.32	39.05
7/6/2007 0:12		15.47	25.13	24.74	39.62
7/6/2007 0:12		15.38	24.55	24.06	39.39
7/6/2007 0:12		15.28	24.06	23.77	38.71
7/6/2007 0:13		15.09	23.87	23.68	40.65

7/6/2007 0:13		15.09	23.87	23.77	40.65
7/6/2007 0:13		15	23.77	23.77	40.07
7/6/2007 0:13		14.9	23.77	23.48	39.96
7/6/2007 0:14		14.8	23.58	23.39	39.5
7/6/2007 0:14		14.71	23.48	23.39	39.84
7/6/2007 0:14		14.61	23.48	23.29	40.3
7/6/2007 0:14		14.61	23.1	23.29	40.42
7/6/2007 0:15		14.52	23.1	23.2	40.76
7/6/2007 0:15		14.42	23.1	23.2	40.88
7/6/2007 0:15		14.42	23.1	23.29	41.46
7/6/2007 0:15		14.33	23.2	23.29	41.81
7/6/2007 0:16		14.33	23.29	23.39	41.81
7/6/2007 0:16		14.23	23.29	23.29	43.24
7/6/2007 0:16		14.23	23.29	23.29	43.12
7/6/2007 0:16		14.13	23.29	23.2	43.36
7/6/2007 0:17		14.13	23.29	23.1	43.6
7/6/2007 0:17		14.13	23.29	23	43.97
7/6/2007 0:17		14.04	23.29	22.91	44.95
7/6/2007 0:17		14.04	23.29	23	43.36
7/6/2007 0:18		13.94	23.29	23	42.52
7/6/2007 0:18		13.94	23.29	23	35.65
7/6/2007 0:18		13.85	23.29	23	40.07
7/6/2007 0:18		13.85	23.29	23	34.48
7/6/2007 0:19		13.85	23.29	23	33.22
7/6/2007 0:19		13.75	23.29	23.1	32.09
7/6/2007 0:19		13.75	23.29	23.1	30.05
7/6/2007 0:19		13.75	23.29	23.1	33.43
7/6/2007 0:20		13.65	23.29	23.1	30.05
7/6/2007 0:20		13.65	23.2	23	27.37
7/6/2007 0:20		13.65	23.2	22.91	25.42
7/6/2007 0:20		13.56	23.2	22.81	24.16
7/6/2007 0:21		13.46	23.2	22.81	23.39
7/6/2007 0:21		13.46	23.1	22.81	22.91
7/6/2007 0:21		13.46	23.1	22.72	22.33
7/6/2007 0:21		13.46	23.1	22.72	21.86
7/6/2007 0:22		13.37	23.1	22.72	21.57
7/6/2007 0:22		13.37	23	22.72	21.09
7/6/2007 0:22		13.27	23	22.62	20.33
7/6/2007 0:22		13.27	23	22.62	19.76
7/6/2007 0:23		13.27	23	22.62	19.19
7/6/2007 0:23		13.17	23	22.62	18.24
7/6/2007 0:23		13.17	23.1	22.72	17.38
7/6/2007 0:23		13.17	23.1	22.62	17.19
7/7/2007 0:00		13.08	23.1	22.62	16.9
7/7/2007 0:00		13.08	23.1	22.62	16.9
7/7/2007 0:00		13.08	23	22.62	17.28
7/7/2007 0:00		13.08	23.1	22.62	17.76
7/7/2007 0:01		12.98	23	22.53	17.67
7/7/2007 0:01		12.98	23	22.43	17
7/7/2007 0:01		12.98	22.91	22.24	16.71
7/7/2007 0:01		12.88	22.91	22.43	16.14
7/7/2007 0:02		12.88	22.91	22.53	15.57
7/7/2007 0:02		12.88	22.91	22.53	16.43
7/7/2007 0:02		12.88	22.91	22.53	15.76
7/7/2007 0:02		12.79	22.81	22.43	15.57
7/7/2007 0:03		12.79	22.81	22.43	14.23
7/7/2007 0:03		12.79	22.81	22.43	15.86
7/7/2007 0:03		12.79	22.72	22.33	15.09
7/7/2007 0:03		12.69	22.72	22.33	16.33
7/7/2007 0:04		12.69	22.72	22.33	15.76
7/7/2007 0:04		12.69	22.72	22.24	16.33
7/7/2007 0:04		12.69	22.62	22.14	17.86
7/7/2007 0:04		12.59	22.62	21.95	16.9
7/7/2007 0:05		12.59	22.62	21.76	15.57
7/7/2007 0:05		12.59	22.53	21.66	16.33
7/7/2007 0:05		12.59	22.53	21.86	16.9
7/7/2007 0:05		12.59	22.53	22.05	16.9
7/7/2007 0:06		12.59	22.43	22.14	15.76
7/7/2007 0:06		12.5	22.53	22.24	16.81
7/7/2007 0:06		12.5	22.53	22.24	18.62
7/7/2007 0:06		12.5	22.53	22.24	21.76
7/7/2007 0:07		12.5	22.53	22.24	25.13
7/7/2007 0:07		12.5	22.43	21.95	28.46
7/7/2007 0:07		12.5	22.43	21.66	29.45
7/7/2007 0:07		12.5	22.33	21.47	33.64
7/7/2007 0:08		12.5	22.24	21.38	34.9
7/7/2007 0:08		12.5	22.24	21.38	37.17
7/7/2007 0:08		12.5	22.33	21.95	37.6
7/7/2007 0:08		12.5	22.43	22.05	37.71
7/7/2007 0:09		12.5	22.24	21.86	39.84
7/7/2007 0:09		12.5	22.24	21.76	40.19
7/7/2007 0:09		12.5	22.33	22.24	40.3
7/7/2007 0:09		12.5	22.33	22.24	40.07
7/7/2007 0:10		12.5	22.43	22.43	34.37
7/7/2007 0:10		12.5	22.43	22.43	38.71
7/7/2007 0:10		12.5	22.53	22.43	40.19
7/7/2007 0:10		12.5	22.43	22.33	41.93
7/7/2007 0:11		12.5	22.53	22.33	41.81
7/7/2007 0:11		12.5	22.53	22.33	41.34

7/7/2007 0:11		12.5	22.62	22.43	41.58
7/7/2007 0:11		12.5	22.62	22.43	41.93
7/7/2007 0:12		12.5	22.62	22.53	42.4
7/7/2007 0:12		12.5	22.72	22.53	41.69
7/7/2007 0:12		12.5	22.72	22.53	41.81
7/7/2007 0:12		12.5	22.72	22.43	42.05
7/7/2007 0:13		12.5	22.81	22.43	42.64
7/7/2007 0:13		12.59	22.81	22.43	42.4
7/7/2007 0:13		12.59	22.91	22.43	41.46
7/7/2007 0:13		12.59	22.91	22.43	42.4
7/7/2007 0:14		12.59	23	22.72	42.88
7/7/2007 0:14		12.59	23	22.81	43.12
7/7/2007 0:14		12.59	23	22.81	35.54
7/7/2007 0:14		12.59	23.1	22.91	43
7/7/2007 0:15		12.59	23.1	22.81	39.62
7/7/2007 0:15		12.59	23.1	22.81	40.07
7/7/2007 0:15		12.59	23.1	22.91	39.96
7/7/2007 0:15		12.59	23.2	22.81	42.88
7/7/2007 0:16		12.59	23.2	22.81	35.22
7/7/2007 0:16		12.59	23.29	23.1	33.43
7/7/2007 0:16		12.59	23.29	22.81	32.5
7/7/2007 0:16		12.59	23.29	22.81	31.27
7/7/2007 0:17		12.59	23.29	22.72	30.66
7/7/2007 0:17		12.59	23.39	22.81	30.46
7/7/2007 0:17		12.59	23.39	22.81	30.46
7/7/2007 0:17		12.59	23.39	22.81	28.95
7/7/2007 0:18		12.59	23.39	22.72	27.57
7/7/2007 0:18		12.5	23.39	22.72	26.49
7/7/2007 0:18		12.5	23.29	22.81	26.88
7/7/2007 0:18		12.5	23.2	22.91	27.37
7/7/2007 0:19		12.5	23.1	23	25.42
7/7/2007 0:19		12.5	23	23	24.55
7/7/2007 0:19		12.5	22.91	23.1	25.13
7/7/2007 0:19		12.5	22.81	22.91	25.51
7/7/2007 0:20		12.5	22.81	22.62	22.72
7/7/2007 0:20		12.5	22.81	22.53	23.77
7/7/2007 0:20		12.5	22.81	22.53	23.29
7/7/2007 0:20		12.5	22.72	22.53	23.68
7/7/2007 0:21		12.5	22.72	22.53	24.16
7/7/2007 0:21		12.5	22.62	22.53	24.74
7/7/2007 0:21		12.5	22.33	22.53	22.81
7/7/2007 0:21		12.5	22.33	22.53	22.72
7/7/2007 0:22		12.5	22.43	22.43	22.53
7/7/2007 0:22		12.5	22.33	22.33	22.72
7/7/2007 0:22		12.5	22.43	22.33	23
7/7/2007 0:22		12.5	22.33	22.14	23.2
7/7/2007 0:23		12.5	22.24	22.05	23.87
7/7/2007 0:23		12.5	22.05	21.66	24.74
7/7/2007 0:23		12.5	21.86	21.28	23.29
7/7/2007 0:23		12.5	21.57	20.9	23.68
7/8/2007 0:00		12.5	21.38	20.42	24.26
7/8/2007 0:00		12.5	21.19	20.04	24.45
7/8/2007 0:00		12.5	21	19.76	24.55
7/8/2007 0:00		12.5	21	19.57	24.45
7/8/2007 0:01		12.5	20.81	19.38	24.55
7/8/2007 0:01		12.5	20.71	19.19	23.29
7/8/2007 0:01		12.5	20.62	19	23.68
7/8/2007 0:01		12.4	20.52	18.9	22.53
7/8/2007 0:02		12.4	20.42	18.81	23.58
7/8/2007 0:02		12.4	20.23	18.81	23.58
7/8/2007 0:02		12.4	20.04	18.71	23.2
7/8/2007 0:02		12.4	19.95	18.62	23
7/8/2007 0:03		12.4	20.04	18.62	23
7/8/2007 0:03		12.4	20.14	18.62	23.39
7/8/2007 0:03		12.4	20.42	18.52	22.81
7/8/2007 0:03		12.4	20.62	20.62	22.24
7/8/2007 0:04		12.4	20.9	21.38	21.47
7/8/2007 0:04		12.4	21.26	21.66	23.39
7/8/2007 0:04		12.4	21.47	21.76	23.2
7/8/2007 0:04		12.4	21.57	21.76	23.39
7/8/2007 0:05		12.4	21.66	21.76	23
7/8/2007 0:05		12.3	21.66	21.76	21.19
7/8/2007 0:05		12.3	21.66	21.76	19.09
7/8/2007 0:06		12.3	21.76	21.76	17.48
7/8/2007 0:06		12.3	21.66	21.66	17.57
7/8/2007 0:06		12.3	21.76	21.66	18.52
7/8/2007 0:06		12.3	21.66	21.66	20.33
7/8/2007 0:07		12.3	21.66	21.66	24.74
7/8/2007 0:07		12.3	21.66	21.66	24.45
7/8/2007 0:07		12.3	21.66	21.57	27.27
7/8/2007 0:07		12.3	21.66	21.28	30.76
7/8/2007 0:08		12.3	21.66	21	33.12
7/8/2007 0:08		12.3	21.66	20.81	33.74
7/8/2007 0:08		12.3	21.66	20.62	33.54
7/8/2007 0:08		12.3	21.76	21.19	35.01
7/8/2007 0:09		12.3	21.66	21.38	34.9
7/8/2007 0:09		12.3	21.66	21.57	36.51
7/8/2007 0:09		12.3	21.76	21.66	37.94

7/8/2007 0:09		12.3	21.76	21.66	35.33
7/8/2007 0:10		12.3	21.76	21.57	31.06
7/8/2007 0:10		12.3	21.76	21.57	34.59
7/8/2007 0:10		12.3	21.76	21.66	36.3
7/8/2007 0:10		12.3	21.76	21.57	35.97
7/8/2007 0:11		12.3	21.76	21.57	37.6
7/8/2007 0:11		12.3	21.76	21.57	36.62
7/8/2007 0:11		12.3	21.86	21.47	33.22
7/8/2007 0:11		12.3	21.86	21.57	37.94
7/8/2007 0:12		12.3	21.86	21.66	41.81
7/8/2007 0:12		12.3	21.86	21.57	38.49
7/8/2007 0:12		12.4	21.86	21.57	41.23
7/8/2007 0:12		12.4	21.86	21.47	33.64
7/8/2007 0:13		12.4	21.86	21.28	36.73
7/8/2007 0:13		12.4	21.95	21.19	34.06
7/8/2007 0:13		12.4	21.95	21.09	31.88
7/8/2007 0:13		12.4	21.95	21.28	35.86
7/8/2007 0:14		12.4	21.95	21.57	35.12
7/8/2007 0:14		12.4	22.05	21.66	37.27
7/8/2007 0:14		12.4	22.05	21.76	32.6
7/8/2007 0:14		12.4	22.05	21.86	28.16
7/8/2007 0:15		12.4	22.05	21.86	16.52
7/8/2007 0:15		12.4	21.95	21.86	16.43
7/8/2007 0:15		12.4	21.86	21.86	17.67
7/8/2007 0:15		12.4	21.86	21.86	19.47
7/8/2007 0:16		12.4	21.86	21.86	21
7/8/2007 0:16		12.3	21.86	21.76	27.67
7/8/2007 0:16		12.3	21.76	21.76	29.35
7/8/2007 0:16		12.3	21.76	21.76	37.27
7/8/2007 0:17		12.3	21.76	21.66	34.9
7/8/2007 0:17		12.3	21.76	21.66	39.05
7/8/2007 0:17		12.4	21.95	21.66	36.08
7/8/2007 0:17		12.4	22.14	21.57	37.6
7/8/2007 0:18		12.3	22.24	21.47	35.86
7/8/2007 0:18		12.4	22.24	21.38	29.25
7/8/2007 0:18		12.3	22.24	21.38	28.75
7/8/2007 0:18		12.4	22.33	21.38	29.65
7/8/2007 0:19		12.3	22.33	21.57	24.06
7/8/2007 0:19		12.3	22.33	21.57	21.76
7/8/2007 0:19		12.3	22.33	21.57	21.38
7/8/2007 0:19		12.3	22.33	21.57	21.28
7/8/2007 0:20		12.3	22.33	21.57	21.09
7/8/2007 0:20		12.3	22.33	21.57	21.76
7/8/2007 0:20		12.3	22.33	21.57	20.62
7/8/2007 0:20		12.3	22.33	21.57	19.09
7/8/2007 0:21		12.3	22.33	21.57	17.48
7/8/2007 0:21		12.3	22.33	21.47	16.62
7/8/2007 0:21		12.3	22.33	21.47	16.62
7/8/2007 0:21		12.3	22.24	21.47	16.62
7/8/2007 0:22		12.3	22.24	21.47	16.05
7/8/2007 0:22		12.21	22.24	21.47	16.05
7/8/2007 0:22		12.21	22.24	21.38	15.76
7/8/2007 0:22		12.21	22.24	21.28	15.38
7/8/2007 0:23		12.21	22.24	21.19	15.66
7/8/2007 0:23		12.21	22.24	21.09	15.57
7/8/2007 0:23		12.21	22.14	21	15.86
7/8/2007 0:23		12.21	22.05	20.9	15.95
7/9/2007 0:00		12.21	22.05	20.81	16.14
7/9/2007 0:00		12.21	21.95	20.71	16.24
7/9/2007 0:00		12.21	21.86	20.62	16.05
7/9/2007 0:00		12.21	21.86	20.52	15.86
7/9/2007 0:01		12.21	21.76	20.42	15.66
7/9/2007 0:01		12.11	21.66	20.33	15.47
7/9/2007 0:01		12.11	21.57	20.23	15.09
7/9/2007 0:01		12.11	21.47	20.14	15.09
7/9/2007 0:02		12.11	21.38	20.04	14.8
7/9/2007 0:02		12.11	21.28	19.95	14.8
7/9/2007 0:02		12.11	21.19	19.85	14.61
7/9/2007 0:02		12.11	21.09	19.76	14.13
7/9/2007 0:03		12.11	21	19.66	13.27
7/9/2007 0:03		12.11	20.9	19.57	12.98
7/9/2007 0:03		12.11	20.81	19.47	12.69
7/9/2007 0:03		12.11	20.71	19.38	12.3
7/9/2007 0:04		12.11	20.71	19.38	12.3
7/9/2007 0:04		12.11	20.52	19.28	12.69
7/9/2007 0:04		12.01	20.42	19.19	12.69
7/9/2007 0:04		12.11	20.42	19.09	12.11
7/9/2007 0:05		12.11	20.62	19	12.59
7/9/2007 0:05		12.01	20.62	18.9	12.5
7/9/2007 0:05		12.01	20.81	18.81	12.4
7/9/2007 0:05		12.01	21.09	19.28	11.72
7/9/2007 0:06		12.01	21.47	20.33	11.92
7/9/2007 0:06		12.01	21.57	20.71	12.3
7/9/2007 0:06		12.01	21.57	20.9	13.08
7/9/2007 0:06		12.01	21.57	20.9	14.9
7/9/2007 0:07		12.01	21.57	21	18.33
7/9/2007 0:07		12.01	21.57	21	21.09
7/9/2007 0:07		12.01	21.57	21	23.58
7/9/2007 0:07		12.01	21.57	21	27.47

7/9/2007 0:08		12.01	21.57	21	25.22
7/9/2007 0:08		12.01	21.57	20.81	27.17
7/9/2007 0:08		12.01	21.47	20.42	33.33
7/9/2007 0:08		12.01	21.38	20.23	28.36
7/9/2007 0:09		12.01	21.28	20.62	24.26
7/9/2007 0:09		12.01	21.47	21	24.45
7/9/2007 0:09		12.01	21.57	21	28.06
7/9/2007 0:09		12.01	21.57	21	30.05
7/9/2007 0:10		12.01	21.57	21	29.75
7/9/2007 0:10		12.01	21.66	20.81	33.95
7/9/2007 0:10		12.01	21.66	20.62	35.97
7/9/2007 0:10		12.11	21.66	20.42	33.43
7/9/2007 0:11		12.11	21.66	20.23	34.8
7/9/2007 0:11		12.11	21.57	20.14	34.59
7/9/2007 0:11		12.11	21.66	20.04	33.64
7/9/2007 0:11		12.11	21.66	20.71	35.44
7/9/2007 0:12		12.11	21.66	21	36.51
7/9/2007 0:12		12.11	21.66	21.09	37.38
7/9/2007 0:12		12.11	21.66	21	38.05
7/9/2007 0:12		12.11	21.66	21	37.71
7/9/2007 0:13		12.11	21.66	21.09	38.83
7/9/2007 0:13		12.21	21.76	21.19	37.6
7/9/2007 0:13		12.21	21.76	21.19	38.71
7/9/2007 0:13		12.21	21.76	21.19	38.94
7/9/2007 0:14		12.21	21.76	21.19	38.94
7/9/2007 0:14		12.21	21.76	21.19	40.07
7/9/2007 0:14		12.21	21.86	21.19	40.19
7/9/2007 0:14		12.21	21.86	21.19	39.5
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7/9/2007 0:15		12.21	21.86	21.19	41.23
7/9/2007 0:15		12.21	21.95	21.19	40.19
7/9/2007 0:15		12.3	21.95	21.09	40.19
7/9/2007 0:16		12.3	21.95	21	36.95
7/9/2007 0:16		12.3	22.05	20.9	36.95
7/9/2007 0:16		12.3	22.05	20.9	35.86
7/9/2007 0:17		12.3	22.14	21.09	37.17
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7/9/2007 0:17		12.3	22.14	21.28	37.82
7/9/2007 0:17		12.3	22.14	21.28	35.97
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7/9/2007 0:18		12.3	22.24	21.28	36.08
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7/9/2007 0:19		12.3	22.24	21.38	37.6
7/9/2007 0:19		12.3	22.24	21.38	35.44
7/9/2007 0:19		12.3	22.24	21.38	34.27
7/9/2007 0:19		12.3	22.24	21.38	34.27
7/9/2007 0:20		12.3	22.24	21.38	31.98
7/9/2007 0:20		12.3	22.24	21.38	28.06
7/9/2007 0:20		12.3	22.24	21.47	25.42
7/9/2007 0:20		12.3	22.33	21.47	23.87
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7/9/2007 0:21		12.3	22.24	21.38	23.1
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7/9/2007 0:22		12.3	22.24	21.28	19.85
7/9/2007 0:22		12.3	22.24	21.28	20.81
7/9/2007 0:23		12.3	22.24	21.19	19.09
7/9/2007 0:23		12.3	22.24	21.19	18.9
7/9/2007 0:23		12.21	22.14	21.09	17.95
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7/10/2007 0:00		12.21	22.14	20.9	21.76
7/10/2007 0:00		12.21	22.05	20.81	22.81
7/10/2007 0:00		12.21	22.05	20.71	24.64
7/10/2007 0:00		12.21	21.86	20.52	25.22
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7/10/2007 0:01		12.21	21.57	20.23	25.61
7/10/2007 0:01		12.21	21.38	20.14	25.32
7/10/2007 0:02		12.21	21.19	20.04	22.81
7/10/2007 0:02		12.21	21.09	20.04	20.9
7/10/2007 0:02		12.21	21.09	19.95	20.14
7/10/2007 0:02		12.21	21	19.95	20.14
7/10/2007 0:03		12.21	21	19.95	20.52
7/10/2007 0:03		12.21	21	19.95	20.81
7/10/2007 0:03		12.21	20.9	19.95	20.62
7/10/2007 0:03		12.21	20.9	19.95	19.28
7/10/2007 0:04		12.21	20.9	19.95	18.71
7/10/2007 0:04		12.21	21	19.95	18.43
7/10/2007 0:04		12.21	21	19.95	18.14
7/10/2007 0:04		12.21	21.09	19.95	17.67
7/10/2007 0:05		12.21	21.09	20.04	17.67
7/10/2007 0:05		12.21	21.19	20.04	18.24
7/10/2007 0:05		12.21	21.28	20.14	18.05
7/10/2007 0:06		12.21	21.28	20.14	17.67

7/10/2007 0:06		12.21	21.28	20.23	17.67
7/10/2007 0:06		12.21	21.28	20.23	17.57
7/10/2007 0:06		12.21	21.28	20.23	17.38
7/10/2007 0:07		12.21	21.38	20.33	17.28
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7/10/2007 0:07		12.11	21.38	20.33	16.62
7/10/2007 0:07		12.11	21.38	20.33	17.09
7/10/2007 0:08		12.11	21.38	20.33	17.19
7/10/2007 0:08		12.11	21.38	20.33	17.95
7/10/2007 0:08		12.11	21.38	20.33	18.24
7/10/2007 0:08		12.11	21.38	20.33	20.42
7/10/2007 0:09		12.11	21.38	20.33	20.81
7/10/2007 0:09		12.11	21.38	20.33	23.87
7/10/2007 0:09		12.11	21.38	20.42	21.66
7/10/2007 0:09		12.11	21.38	20.42	22.72
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7/10/2007 0:11		12.11	21.38	20.52	27.57
7/10/2007 0:11		12.11	21.38	20.62	30.46
7/10/2007 0:11		12.21	21.47	20.62	30.56
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7/10/2007 0:12		12.21	21.66	20.71	32.29
7/10/2007 0:12		12.3	21.76	20.81	33.22
7/10/2007 0:13		12.3	22.05	21.09	34.16
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7/10/2007 0:14		12.3	23	22.62	30.15
7/10/2007 0:14		12.3	23	22.53	30.05
7/10/2007 0:14		12.3	22.81	22.43	30.56
7/10/2007 0:14		12.3	22.05	22.43	36.95
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7/10/2007 0:16		12.3	22.91	22.24	36.4
7/10/2007 0:16		12.3	22.62	22.14	32.7
7/10/2007 0:16		12.4	22.62	22.14	29.05
7/10/2007 0:16		12.4	22.62	22.14	26.29
7/10/2007 0:17		12.4	22.62	22.24	26.59
7/10/2007 0:17		12.4	22.72	22.33	33.22
7/10/2007 0:17		12.4	22.81	22.43	26.59
7/10/2007 0:17		12.4	22.91	22.43	24.74
7/10/2007 0:18		12.4	22.62	22.53	21.76
7/10/2007 0:18		12.3	22.53	22.72	23
7/10/2007 0:18		12.4	22.81	22.24	23.1
7/10/2007 0:18		12.3	22.91	22.14	22.72
7/10/2007 0:19		12.3	23	22.14	22.91
7/10/2007 0:19		12.3	22.53	22.05	24.06
7/10/2007 0:19		12.3	22.53	22.05	26.1
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7/10/2007 0:20		12.3	22.81	21.95	21.09
7/10/2007 0:20		12.3	22.91	21.95	20.42
7/10/2007 0:20		12.3	22.91	21.95	19.85
7/10/2007 0:21		12.3	22.81	21.95	19.95
7/10/2007 0:21		12.3	22.53	21.95	19.38
7/10/2007 0:21		12.3	22.62	21.86	19.76
7/10/2007 0:21		12.3	22.62	21.86	16.14
7/10/2007 0:22		12.3	22.62	21.86	15.57
7/10/2007 0:22		12.3	22.62	21.76	14.9
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7/10/2007 0:22		12.3	22.33	21.66	15.86
7/10/2007 0:23		12.21	22.33	21.66	15.95
7/10/2007 0:23		12.21	22.33	21.66	16.05
7/10/2007 0:23		12.21	22.24	21.66	15.86
7/10/2007 0:23		12.21	22.14	21.66	16.14
7/11/2007 0:00		12.21	21.95	21.66	16.05
7/11/2007 0:00		12.21	21.95	21.57	15.28
7/11/2007 0:00		12.21	22.05	21.57	15
7/11/2007 0:00		12.21	22.05	21.47	14.61
7/11/2007 0:01		12.21	22.05	21.57	14.33
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7/11/2007 0:02		12.21	21.38	21.66	15.47
7/11/2007 0:02		12.21	21.38	21.66	15
7/11/2007 0:02		12.11	21.76	21.57	14.8
7/11/2007 0:02		12.11	21.66	21.57	14.8
7/11/2007 0:03		12.11	21.47	21.57	13.37
7/11/2007 0:03		12.11	21.28	21.47	13.75
7/11/2007 0:03		12.11	21	21.47	14.42
7/11/2007 0:04		12.11	21.57	21.38	14.33
7/11/2007 0:04		12.11	21.66	21.38	13.65
7/11/2007 0:04		12.11	21.28	21.28	13.37

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7/11/2007 0:05		12.11	20.42	21.28	13.27
7/11/2007 0:05		12.11	20.23	21.19	12.98
7/11/2007 0:05		12.11	21.38	21	12.98
7/11/2007 0:06		12.11	21.38	20.9	12.88
7/11/2007 0:06		12.11	21.28	20.81	12.98
7/11/2007 0:06		12.01	21.19	20.71	14.13
7/11/2007 0:06		12.01	21.09	20.62	15.95
7/11/2007 0:07		12.01	20.81	20.52	18.05
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7/11/2007 0:08		12.01	21.28	21.47	25.13
7/11/2007 0:08		12.01	21.09	21.57	28.16
7/11/2007 0:08		12.01	20.9	21.57	29.05
7/11/2007 0:08		12.01	20.81	21.57	29.95
7/11/2007 0:09		12.01	20.81	21.57	29.95
7/11/2007 0:09		12.11	21.47	21.57	29.85
7/11/2007 0:09		12.01	21.66	21.47	29.55
7/11/2007 0:09		12.11	21.57	21.47	28.26
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7/11/2007 0:11		12.11	21.66	21.47	31.57
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7/11/2007 0:11		12.11	21.95	21.47	32.09
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7/11/2007 0:14		12.21	22.33	21.76	23.87
7/11/2007 0:14		12.21	22.43	21.76	23.29
7/11/2007 0:14		12.21	22.62	21.66	23.48
7/11/2007 0:14		12.21	22.81	21.66	20.9
7/11/2007 0:15		12.21	22.81	21.66	20.23
7/11/2007 0:15		12.21	22.53	21.66	21.57
7/11/2007 0:15		12.21	22.43	21.66	22.62
7/11/2007 0:15		12.21	22.62	21.66	23.97
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7/11/2007 0:16		12.21	22.81	21.66	33.85
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7/11/2007 0:18		12.21	22.53	21.57	28.85
7/11/2007 0:18		12.21	22.53	21.57	27.47
7/11/2007 0:18		12.21	22.81	21.57	28.26
7/11/2007 0:19		12.21	22.91	21.66	26.1
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7/11/2007 0:19		12.21	22.62	21.66	26.29
7/11/2007 0:20		12.21	22.72	21.66	23.87
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7/11/2007 0:23		12.21	22.62	21.57	16.62
7/11/2007 0:23		12.21	22.62	21.57	16.71
7/11/2007 0:23		12.21	22.53	21.47	17
7/12/2007 0:00		12.21	22.53	21.47	17.57
7/12/2007 0:00		12.21	22.43	21.47	17.28
7/12/2007 0:00		12.21	22.33	21.47	17.67
7/12/2007 0:00		12.21	22.33	21.38	16.9
7/12/2007 0:01		12.21	22.24	21.38	16.33
7/12/2007 0:01		12.21	22.24	21.38	16.62
7/12/2007 0:01		12.11	22.14	21.38	16.71
7/12/2007 0:01		12.11	22.24	21.38	16.14
7/12/2007 0:02		12.11	22.24	21.28	16.05
7/12/2007 0:02		12.11	22.05	21.28	16.24
7/12/2007 0:02		12.11	21.95	21.19	15.66

7/12/2007 0:02		12.11	21.86	21.19	15.28
7/12/2007 0:03		12.11	21.76	21.09	15.95
7/12/2007 0:03		12.11	22.05	21.09	15.57
7/12/2007 0:03		12.11	22.05	21	15.76
7/12/2007 0:03		12.11	21.95	21.28	15.47
7/12/2007 0:04		12.11	21.86	21.47	15.38
7/12/2007 0:04		12.11	21.66	21.47	15.19
7/12/2007 0:04		12.11	21.57	21.47	15.19
7/12/2007 0:04		12.11	21.47	21.47	14.9
7/12/2007 0:05		12.11	21.95	21.38	15.38
7/12/2007 0:05		12.11	21.86	21.38	14.23
7/12/2007 0:05		12.11	21.66	21.38	13.56
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7/12/2007 0:06		12.11	21.28	21.28	13.85
7/12/2007 0:06		12.01	21.09	21.28	14.23
7/12/2007 0:06		12.11	21.86	21.28	14.33
7/12/2007 0:06		12.11	21.76	21.28	14.71
7/12/2007 0:07		12.01	21.47	21.19	16.14
7/12/2007 0:07		12.01	21.19	21.19	18.05
7/12/2007 0:07		12.01	20.9	21.09	19.28
7/12/2007 0:07		12.01	21.28	21.09	23.29
7/12/2007 0:08		12.01	21.66	21.09	28.26
7/12/2007 0:08		12.01	21.38	21.09	30.86
7/12/2007 0:08		12.01	21.19	21	29.35
7/12/2007 0:08		12.11	21	20.81	29.85
7/12/2007 0:09		12.11	21	20.71	32.19
7/12/2007 0:09		12.11	20.9	20.62	28.16
7/12/2007 0:09		12.11	21.86	20.52	27.57
7/12/2007 0:09		12.11	21.86	20.52	27.27
7/12/2007 0:10		12.11	21.76	20.42	27.96
7/12/2007 0:10		12.11	21.66	21.19	28.56
7/12/2007 0:10		12.11	21.86	21.28	29.85
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7/12/2007 0:14		12.21	22.62	21.28	31.37
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7/12/2007 0:20		12.11	21.76	21.28	14.8
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7/12/2007 0:21		12.11	21.76	21.28	14.52
7/12/2007 0:22		12.11	21.47	21.19	14.42
7/12/2007 0:22		12.11	21.28	21.19	14.52
7/12/2007 0:22		12.11	21.19	21.19	14.23
7/12/2007 0:22		12.11	22.05	21.19	13.85
7/12/2007 0:23		12.11	21.86	21.19	14.04
7/12/2007 0:23		12.11	21.57	21.09	14.33
7/12/2007 0:23		12.11	21.28	21	14.23
7/12/2007 0:23		12.11	21.09	20.9	14.33
7/13/2007 0:00		12.11	21	20.71	14.23
7/13/2007 0:00		12.11	21.95	20.62	14.13
7/13/2007 0:00		12.11	21.76	20.52	13.94
7/13/2007 0:00		12.11	21.47	20.42	13.08

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7/13/2007 0:01		12.11	20.81	20.81	14.42
7/13/2007 0:01		12.01	20.62	21.09	13.75
7/13/2007 0:01		12.01	20.42	21.09	13.37
7/13/2007 0:02		12.01	21.86	21.09	13.37
7/13/2007 0:02		12.01	21.38	21.09	13.08
7/13/2007 0:02		12.01	21	21.09	11.92
7/13/2007 0:02		12.01	20.71	21	12.01
7/13/2007 0:03		12.01	20.33	21	12.01
7/13/2007 0:03		12.01	20.04	21	12.21
7/13/2007 0:03		12.01	21.57	21	11.92
7/13/2007 0:03		12.01	21.28	20.9	11.92
7/13/2007 0:04		12.01	20.71	20.9	11.33
7/13/2007 0:04		12.01	20.23	20.9	11.43
7/13/2007 0:04		12.01	19.95	20.9	11.63
7/13/2007 0:04		12.01	19.57	20.9	12.11
7/13/2007 0:05		12.01	19.38	20.81	12.11
7/13/2007 0:05		12.01	21.38	20.81	12.01
7/13/2007 0:05		12.01	21	20.71	11.53
7/13/2007 0:05		12.01	20.42	20.71	11.33
7/13/2007 0:06		11.92	19.85	20.71	11.53
7/13/2007 0:06		11.92	19.47	20.71	12.01
7/13/2007 0:06		11.92	19.09	20.71	11.82
7/13/2007 0:06		11.92	18.9	20.62	12.79
7/13/2007 0:07		11.92	21.19	20.33	14.61
7/13/2007 0:07		11.92	20.81	20.04	17
7/13/2007 0:07		11.92	20.23	19.76	21.38
7/13/2007 0:07		11.92	19.76	19.47	28.16
7/13/2007 0:08		11.92	19.38	19.28	30.96
7/13/2007 0:08		11.92	19.19	19	33.85
7/13/2007 0:08		11.92	20.23	18.9	33.85
7/13/2007 0:08		11.92	21.28	18.9	34.16
7/13/2007 0:09		12.01	21	19.95	36.19
7/13/2007 0:09		12.01	20.71	20.33	37.06
7/13/2007 0:09		12.01	20.33	20.62	38.38
7/13/2007 0:09		12.01	20.14	20.71	36.84
7/13/2007 0:10		12.01	21.38	20.81	30.56
7/13/2007 0:10		12.01	21.66	20.81	33.74
7/13/2007 0:10		12.01	21.38	20.81	35.12
7/13/2007 0:10		12.01	21.19	20.81	34.16
7/13/2007 0:11		12.11	21	20.81	38.6
7/13/2007 0:11		12.11	20.9	20.9	36.62
7/13/2007 0:11		12.11	21.86	20.81	38.38
7/13/2007 0:11		12.11	21.95	20.9	37.71
7/13/2007 0:12		12.11	21.86	20.9	38.38
7/13/2007 0:12		12.11	21.76	20.9	37.27
7/13/2007 0:12		12.11	21.66	21	37.6
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7/13/2007 0:13		12.21	22.14	21	36.95
7/13/2007 0:13		12.21	22.24	21	36.62
7/13/2007 0:13		12.21	22.24	20.9	37.71
7/13/2007 0:13		12.21	22.24	21	37.82
7/13/2007 0:14		12.21	22.43	20.9	36.51
7/13/2007 0:14		12.21	22.53	21	38.38
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7/13/2007 0:15		12.3	22.62	20.81	38.71
7/13/2007 0:15		12.3	22.72	20.81	38.38
7/13/2007 0:15		12.3	22.81	20.81	40.3
7/13/2007 0:15		12.3	22.81	20.81	39.96
7/13/2007 0:16		12.3	22.91	21	39.62
7/13/2007 0:16		12.3	22.91	21.09	41.69
7/13/2007 0:16		12.3	23	21.09	40.65
7/13/2007 0:16		12.3	23.1	21.09	42.4
7/13/2007 0:17		12.3	23.1	21.09	41.81
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7/13/2007 0:17		12.4	23.29	21.09	40.53
7/13/2007 0:18		12.4	23.2	21.09	39.84
7/13/2007 0:18		12.4	23.1	21.19	33.64
7/13/2007 0:18		12.4	23.48	21.19	34.48
7/13/2007 0:18		12.4	23.48	21.19	30.05
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7/13/2007 0:19		12.4	23.58	21.19	25.71
7/13/2007 0:20		12.4	23.68	21.19	25.71
7/13/2007 0:20		12.4	23.29	21.19	25.42
7/13/2007 0:20		12.4	23.39	21.19	24.06
7/13/2007 0:20		12.4	23.48	21.19	23
7/13/2007 0:21		12.4	23.58	21.19	22.43
7/13/2007 0:21		12.4	23.48	21.19	21.76
7/13/2007 0:21		12.3	23.29	21.19	22.05
7/13/2007 0:21		12.3	23.39	21.19	23.68
7/13/2007 0:22		12.3	23.29	21.19	23
7/13/2007 0:22		12.3	23.29	21.19	21.57
7/13/2007 0:22		12.3	23.1	21.28	22.33
7/13/2007 0:22		12.3	22.91	21.19	21.86
7/13/2007 0:23		12.3	22.62	21.09	20.9

7/13/2007 0:23		12.3	22.43	21.09	18.62
7/13/2007 0:23		12.3	22.33	21.09	20.62
7/13/2007 0:23		12.3	22.72	21	21.28
7/14/2007 0:00		12.3	22.53	21	20.62
7/14/2007 0:00		12.3	22.33	21	19.57
7/14/2007 0:00		12.3	22.14	21	18.81
7/14/2007 0:00		12.3	22.53	21	17.67
7/14/2007 0:01		12.3	22.53	21	16.9
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7/14/2007 0:01		12.3	21.86	20.9	19.66
7/14/2007 0:01		12.3	22.33	20.9	20.04
7/14/2007 0:02		12.3	22.05	20.9	20.52
7/14/2007 0:02		12.3	21.76	20.81	20.23
7/14/2007 0:02		12.3	21.57	20.81	19
7/14/2007 0:02		12.3	21.38	20.81	18.43
7/14/2007 0:03		12.3	22.24	20.81	17.76
7/14/2007 0:03		12.21	22.05	20.71	16.71
7/14/2007 0:03		12.21	21.66	20.52	17.28
7/14/2007 0:03		12.21	21.38	20.42	17.09
7/14/2007 0:04		12.21	21.19	20.33	16.81
7/14/2007 0:04		12.21	22.14	20.14	16.05
7/14/2007 0:04		12.21	21.86	20.04	15.76
7/14/2007 0:04		12.21	21.38	19.95	15.57
7/14/2007 0:05		12.21	21.09	19.85	15
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7/14/2007 0:05		12.21	21.86	20.71	14.71
7/14/2007 0:05		12.21	21.66	20.71	14.52
7/14/2007 0:06		12.21	21.19	20.62	14.33
7/14/2007 0:06		12.21	20.71	20.62	13.94
7/14/2007 0:06		12.21	21.76	20.62	15.19
7/14/2007 0:06		12.21	21.38	20.62	16.14
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7/14/2007 0:07		12.21	20.52	20.62	23.87
7/14/2007 0:07		12.21	20.23	20.62	25.81
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7/14/2007 0:08		12.21	20.81	20.52	37.82
7/14/2007 0:08		12.21	20.62	20.42	40.99
7/14/2007 0:08		12.21	20.52	20.62	39.84
7/14/2007 0:09		12.21	21.95	20.62	37.71
7/14/2007 0:09		12.21	21.76	20.62	38.38
7/14/2007 0:09		12.21	21.47	20.62	37.94
7/14/2007 0:09		12.21	21.47	20.62	35.12
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7/14/2007 0:11		12.3	22.43	20.71	37.27
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7/14/2007 0:12		12.4	23	20.52	38.27
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7/14/2007 0:13		12.4	23.1	20.81	37.49
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7/14/2007 0:13		12.4	23.39	21	38.83
7/14/2007 0:14		12.4	23.29	21	38.49
7/14/2007 0:14		12.4	23.29	21	41.23
7/14/2007 0:14		12.5	23.68	21	39.05
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7/14/2007 0:15		12.5	23.48	21.09	37.94
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7/14/2007 0:15		12.5	24.16	21.09	41.69
7/14/2007 0:16		12.5	23.58	21.09	35.33
7/14/2007 0:16		12.5	23.97	21.09	35.65
7/14/2007 0:16		12.5	24.16	21.09	30.66
7/14/2007 0:16		12.5	24.45	21.09	29.45
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7/14/2007 0:17		12.5	24.16	21.09	29.05
7/14/2007 0:17		12.5	24.35	21.09	25.71
7/14/2007 0:17		12.5	24.45	21.09	22.14
7/14/2007 0:18		12.5	23.68	21.09	21.86
7/14/2007 0:18		12.5	23.77	21.09	24.06
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7/14/2007 0:19		12.5	23.39	21.09	28.16
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7/14/2007 0:19		12.5	23.58	21.28	24.26
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7/14/2007 0:20		12.5	23.39	21.38	22.72
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7/14/2007 0:21		12.5	22.91	21	21.57
7/14/2007 0:22		12.5	22.81	21	19.95
7/14/2007 0:22		12.5	22.91	21	19.19
7/14/2007 0:22		12.5	22.91	21	19.09
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7/14/2007 0:23		12.4	22.62	20.81	17.76
7/15/2007 0:00		12.4	22.53	20.81	19.38
7/15/2007 0:00		12.4	22.43	20.81	19.76
7/15/2007 0:00		12.4	22.62	20.81	19.47
7/15/2007 0:00		12.4	22.62	20.81	18.71
7/15/2007 0:01		12.4	22.43	20.71	16.9
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7/15/2007 0:01		12.4	22.14	20.62	15.66
7/15/2007 0:01		12.4	22.53	20.52	15.66
7/15/2007 0:02		12.4	22.24	20.52	15.66
7/15/2007 0:02		12.4	21.95	20.42	15.38
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7/15/2007 0:02		12.3	22.05	20.33	14.9
7/15/2007 0:03		12.3	22.33	20.52	15.57
7/15/2007 0:03		12.3	21.86	20.71	16.14
7/15/2007 0:03		12.3	21.57	20.71	15.86
7/15/2007 0:03		12.3	21.28	20.71	16.24
7/15/2007 0:04		12.3	22.05	20.71	16.33
7/15/2007 0:04		12.3	21.95	20.62	16.33
7/15/2007 0:04		12.3	21.47	20.62	16.24
7/15/2007 0:04		12.3	21.09	20.62	15.66
7/15/2007 0:05		12.3	20.81	20.52	15.28
7/15/2007 0:05		12.3	21.95	20.42	15.47
7/15/2007 0:05		12.3	21.47	20.42	16.14
7/15/2007 0:05		12.21	21	20.33	15.09
7/15/2007 0:06		12.21	20.62	20.33	14.23
7/15/2007 0:06		12.21	20.81	20.33	13.85
7/15/2007 0:06		12.21	21.76	20.33	14.61
7/15/2007 0:06		12.21	21.19	20.33	18.71
7/15/2007 0:07		12.21	20.62	20.14	22.62
7/15/2007 0:07		12.21	20.33	19.95	25.42
7/15/2007 0:07		12.21	21.19	19.76	28.85
7/15/2007 0:07		12.21	21.76	19.66	33.64
7/15/2007 0:08		12.21	21.28	19.47	36.08
7/15/2007 0:08		12.21	20.9	19.28	37.06
7/15/2007 0:08		12.21	20.71	19.38	37.6
7/15/2007 0:08		12.21	21.86	19.95	38.16
7/15/2007 0:09		12.3	21.76	20.23	39.39
7/15/2007 0:09		12.3	21.47	20.33	40.07
7/15/2007 0:09		12.3	21.38	20.33	39.96
7/15/2007 0:09		12.3	21.66	20.33	36.84
7/15/2007 0:10		12.3	22.14	20.42	32.91
7/15/2007 0:10		12.3	21.86	20.42	38.94
7/15/2007 0:10		12.3	21.76	20.52	40.07
7/15/2007 0:10		12.3	21.66	20.62	41.34
7/15/2007 0:11		12.3	22.33	20.62	42.52
7/15/2007 0:11		12.3	22.14	20.52	41.58
7/15/2007 0:11		12.4	22.05	20.62	40.65
7/15/2007 0:11		12.4	22.14	20.62	40.65
7/15/2007 0:12		12.4	22.53	20.62	40.76
7/15/2007 0:12		12.4	22.62	20.62	40.53
7/15/2007 0:12		12.4	22.72	20.62	40.65
7/15/2007 0:12		12.4	22.81	20.71	41.69
7/15/2007 0:13		12.5	23	20.62	40.53
7/15/2007 0:13		12.4	23.1	20.52	39.39
7/15/2007 0:13		12.5	23	20.52	41.34
7/15/2007 0:13		12.5	23.2	20.71	41.58
7/15/2007 0:14		12.5	23.39	20.81	41.34
7/15/2007 0:14		12.5	23.39	20.81	41.11
7/15/2007 0:14		12.5	23.29	20.9	41.46
7/15/2007 0:14		12.5	23.68	20.9	39.39
7/15/2007 0:15		12.5	23.87	20.9	35.12
7/15/2007 0:15		12.5	23.48	21	35.01
7/15/2007 0:15		12.5	23.77	21	43.48
7/15/2007 0:15		12.59	23.97	21.09	38.83
7/15/2007 0:16		12.59	23.68	21.09	32.39
7/15/2007 0:16		12.59	23.97	21	33.33
7/15/2007 0:16		12.59	24.16	21.09	32.7
7/15/2007 0:16		12.59	23.77	21.09	32.7
7/15/2007 0:17		12.59	23.68	21.09	42.16
7/15/2007 0:17		12.59	24.06	21.09	38.27
7/15/2007 0:17		12.59	24.26	21.19	39.96
7/15/2007 0:17		12.59	23.87	21.19	43.12
7/15/2007 0:18		12.59	23.77	21.28	39.05
7/15/2007 0:18		12.59	24.16	21.28	40.65
7/15/2007 0:18		12.59	24.45	21.38	37.27
7/15/2007 0:18		12.59	24.06	21.09	41.81
7/15/2007 0:19		12.59	23.97	21.19	42.64
7/15/2007 0:19		12.59	24.35	21.19	38.27
7/15/2007 0:19		12.59	24.55	21.09	35.86

7/15/2007 0:19		12.59	23.97	21.09	32.81
7/15/2007 0:20		12.59	23.97	21.19	29.35
7/15/2007 0:20		12.59	24.16	21.19	26.98
7/15/2007 0:20		12.59	24.26	21.19	26.39
7/15/2007 0:20		12.59	23.87	21.19	25.81
7/15/2007 0:21		12.59	23.68	21.19	25.32
7/15/2007 0:21		12.59	23.77	21.19	23.2
7/15/2007 0:21		12.59	23.87	21.19	22.05
7/15/2007 0:21		12.59	23.87	21.19	22.53
7/15/2007 0:22		12.59	23.58	21.19	21.19
7/15/2007 0:22		12.59	23.68	21.19	20.62
7/15/2007 0:22		12.59	23.68	21.19	19.95
7/15/2007 0:22		12.59	23.68	21.19	20.14
7/15/2007 0:23		12.59	23.39	21.09	19.76
7/15/2007 0:23		12.5	23.39	21.09	19.38
7/15/2007 0:23		12.59	23.39	21	18.81
7/15/2007 0:23		12.5	23.29	21	19.38
7/16/2007 0:00		12.5	23.29	21	18.81
7/16/2007 0:00		12.5	23.2	21	19.19
7/16/2007 0:00		12.5	23.1	21	19.76
7/16/2007 0:00		12.5	22.91	20.9	19.47
7/16/2007 0:01		12.5	22.81	20.9	18.43
7/16/2007 0:01		12.5	22.91	20.9	18.62
7/16/2007 0:01		12.5	22.91	20.81	18.05
7/16/2007 0:01		12.5	22.72	20.81	17.95
7/16/2007 0:02		12.5	22.43	20.71	17.95
7/16/2007 0:02		12.5	22.24	20.62	18.05
7/16/2007 0:02		12.5	22.62	20.62	18.05
7/16/2007 0:02		12.4	22.53	20.52	18.24
7/16/2007 0:03		12.4	22.14	20.52	17.86
7/16/2007 0:03		12.4	21.86	20.42	17
7/16/2007 0:03		12.4	21.57	20.33	17.09
7/16/2007 0:03		12.4	22.33	20.23	17.09
7/16/2007 0:04		12.4	22.05	20.14	17.38
7/16/2007 0:04		12.4	21.57	20.04	17.19
7/16/2007 0:04		12.4	21.28	20.62	17.28
7/16/2007 0:04		12.4	21	20.52	16.52
7/16/2007 0:05		12.4	22.14	20.52	16.14
7/16/2007 0:05		12.4	21.86	20.52	16.62
7/16/2007 0:05		12.4	21.28	20.42	17.48
7/16/2007 0:05		12.4	20.81	20.33	17.28
7/16/2007 0:06		12.4	20.42	20.23	16.9
7/16/2007 0:06		12.3	21.76	20.14	16.81
7/16/2007 0:06		12.3	21.66	20.04	17
7/16/2007 0:06		12.3	21.09	19.95	19.19
7/16/2007 0:07		12.3	20.52	19.76	21.76
7/16/2007 0:07		12.3	20.23	19.76	24.45
7/16/2007 0:07		12.3	20.62	20.42	28.85
7/16/2007 0:07		12.3	21.66	20.42	32.81
7/16/2007 0:08		12.3	21.09	20.42	35.97
7/16/2007 0:08		12.3	20.71	20.33	38.6
7/16/2007 0:08		12.4	21.76	20.33	40.99
7/16/2007 0:08		12.4	21.47	20.23	41.46
7/16/2007 0:09		12.4	21.09	20.14	41.46
7/16/2007 0:09		12.4	21.95	20.04	41.11
7/16/2007 0:09		12.4	21.66	20.04	39.73
7/16/2007 0:09		12.4	21.38	20.04	37.49
7/16/2007 0:10		12.4	21.28	19.95	34.16
7/16/2007 0:10		12.4	21.86	19.95	40.07
7/16/2007 0:10		12.4	22.14	20.62	42.4
7/16/2007 0:10		12.4	21.86	20.62	41.58
7/16/2007 0:11		12.4	21.76	20.52	42.05
7/16/2007 0:11		12.5	22.33	20.52	42.4
7/16/2007 0:11		12.5	22.33	20.52	43.12
7/16/2007 0:11		12.5	22.14	20.52	42.4
7/16/2007 0:12		12.5	22.14	20.81	43.6
7/16/2007 0:12		12.5	22.62	20.81	43.12
7/16/2007 0:12		12.5	22.53	20.81	43
7/16/2007 0:12		12.5	22.53	20.81	43.12
7/16/2007 0:13		12.59	22.53	20.81	43.48
7/16/2007 0:13		12.59	22.91	20.81	43.36
7/16/2007 0:13		12.59	23	20.81	42.76
7/16/2007 0:13		12.59	23.1	20.9	44.46
7/16/2007 0:14		12.59	23.2	21	44.95
7/16/2007 0:14		12.59	23.29	21	43.24
7/16/2007 0:14		12.59	23.48	21.09	39.39
7/16/2007 0:14		12.59	23.58	21.09	38.71
7/16/2007 0:15		12.69	23.48	21.09	39.05
7/16/2007 0:15		12.59	23.68	21.09	37.17
7/16/2007 0:15		12.69	23.87	21.19	36.95
7/16/2007 0:15		12.69	24.06	21.19	35.22
7/16/2007 0:16		12.69	23.68	21.28	34.06
7/16/2007 0:16		12.69	23.68	21.19	35.22
7/16/2007 0:16		12.69	23.77	21.19	35.44
7/16/2007 0:16		12.69	23.87	21.19	37.27
7/16/2007 0:17		12.69	23.77	21.28	37.6
7/16/2007 0:17		12.69	23.68	21.28	35.65
7/16/2007 0:17		12.69	23.97	21.28	35.86
7/16/2007 0:17		12.69	24.16	21.28	34.59

7/16/2007 0:18		12.69	24.06	21.28	34.16
7/16/2007 0:18		12.69	23.77	21.38	32.29
7/16/2007 0:18		12.69	23.97	21.38	31.27
7/16/2007 0:18		12.69	24.06	21.28	31.27
7/16/2007 0:19		12.69	24.06	21.28	31.78
7/16/2007 0:19		12.69	23.58	21.28	31.17
7/16/2007 0:19		12.69	23.77	21.28	30.46
7/16/2007 0:19		12.69	23.87	21.38	29.25
7/16/2007 0:20		12.69	23.97	21.38	28.56
7/16/2007 0:20		12.69	23.77	21.28	27.96
7/16/2007 0:20		12.69	23.68	21.28	25.81
7/16/2007 0:20		12.69	23.87	21.28	24.64
7/16/2007 0:21		12.69	23.97	21.38	23
7/16/2007 0:21		12.69	23.97	21.38	23.39
7/16/2007 0:21		12.69	23.48	21.38	22.91
7/16/2007 0:21		12.59	23.58	21.28	23.29
7/16/2007 0:22		12.59	23.48	21.19	22.62
7/16/2007 0:22		12.59	23.39	21.19	21.57
7/16/2007 0:22		12.59	23.39	21.19	20.9
7/16/2007 0:22		12.59	23.39	21.19	20.71
7/16/2007 0:23		12.59	23.29	21.19	20.23
7/16/2007 0:23		12.59	23.2	21.19	20.33
7/16/2007 0:23		12.59	23.1	21.19	20.42
7/16/2007 0:23		12.59	23	21.09	19.76
7/17/2007 0:00		12.59	23.1	21.09	20.04
7/17/2007 0:00		12.59	23	21.09	21.19
7/17/2007 0:00		12.59	22.81	21.19	20.9
7/17/2007 0:00		12.59	22.62	21.19	19.19
7/17/2007 0:01		12.59	22.53	21.09	19.19
7/17/2007 0:01		12.5	22.81	21.09	19.09
7/17/2007 0:01		12.5	22.91	21.09	18.33
7/17/2007 0:01		12.5	22.72	21	18.52
7/17/2007 0:02		12.5	22.43	21	19.57
7/17/2007 0:02		12.5	22.24	20.9	21.28
7/17/2007 0:02		12.5	22.05	21.09	22.81
7/17/2007 0:02		12.5	22.72	21.09	22.43
7/17/2007 0:03		12.5	22.62	21.09	23.2
7/17/2007 0:03		12.5	22.24	21	22.91
7/17/2007 0:03		12.5	22.14	21	22.62
7/17/2007 0:03		12.5	21.95	21	22.72
7/17/2007 0:04		12.5	22.24	20.9	20.9
7/17/2007 0:04		12.5	22.62	20.9	19
7/17/2007 0:04		12.5	22.24	20.81	17.38
7/17/2007 0:04		12.5	21.95	20.81	17
7/17/2007 0:05		12.5	21.76	20.71	17.09
7/17/2007 0:05		12.4	21.47	20.62	16.81
7/17/2007 0:05		12.4	22.05	20.62	16.05
7/17/2007 0:05		12.4	22.33	21	15.76
7/17/2007 0:06		12.4	21.86	20.9	15.66
7/17/2007 0:06		12.4	21.57	20.81	16.14
7/17/2007 0:06		12.4	21.09	20.71	17
7/17/2007 0:06		12.4	20.81	20.62	19.57
7/17/2007 0:07		12.4	20.52	20.52	23.58
7/17/2007 0:07		12.4	22.05	20.81	25.71
7/17/2007 0:07		12.4	21.86	20.81	29.05
7/17/2007 0:07		12.4	21.47	20.71	32.81
7/17/2007 0:08		12.4	21.09	20.71	36.51
7/17/2007 0:08		12.4	21	20.71	39.96
7/17/2007 0:08		12.4	20.9	20.62	43
7/17/2007 0:08		12.4	22.24	20.52	43.48
7/17/2007 0:09		12.4	21.86	20.52	43.6
7/17/2007 0:09		12.4	21.57	20.42	43.36
7/17/2007 0:09		12.4	21.47	20.9	43.84
7/17/2007 0:09		12.4	21.28	20.9	40.3
7/17/2007 0:10		12.5	22.33	20.9	36.84
7/17/2007 0:10		12.5	22.24	20.9	42.88
7/17/2007 0:10		12.5	22.05	20.9	44.83
7/17/2007 0:10		12.5	21.95	21	45.45
7/17/2007 0:11		12.5	22.14	20.9	45.2
7/17/2007 0:11		12.5	22.62	20.9	43.6
7/17/2007 0:11		12.5	22.62	21.09	43.72
7/17/2007 0:11		12.5	22.72	21.19	43.72
7/17/2007 0:12		12.59	22.72	21.19	43.84
7/17/2007 0:12		12.59	23	21.19	42.28
7/17/2007 0:12		12.59	23.2	21.19	43.6
7/17/2007 0:12		12.59	23.29	21.28	38.71
7/17/2007 0:13		12.59	23.48	21.28	38.49
7/17/2007 0:13		12.59	23.29	21.19	41.93
7/17/2007 0:13		12.59	23.39	21.19	44.46
7/17/2007 0:13		12.59	23.58	21.19	43.24
7/17/2007 0:14		12.69	23.77	21.19	45.33
7/17/2007 0:14		12.69	23.58	21.19	44.58
7/17/2007 0:14		12.69	23.68	21.28	41.46
7/17/2007 0:14		12.69	23.97	21.28	37.71
7/17/2007 0:15		12.69	24.16	21.28	35.44
7/17/2007 0:15		12.69	23.97	21.47	34.69
7/17/2007 0:15		12.69	23.87	21.66	31.88
7/17/2007 0:15		12.69	24.06	21.66	30.76
7/17/2007 0:16		12.69	24.16	21.66	29.35

7/17/2007 0:16		12.69	24.26	21.66	30.86
7/17/2007 0:16		12.69	23.87	21.66	32.19
7/17/2007 0:16		12.69	24.16	21.66	32.91
7/17/2007 0:17		12.69	24.35	21.66	33.12
7/17/2007 0:17		12.69	24.55	21.57	32.7
7/17/2007 0:17		12.69	24.55	21.57	31.88
7/17/2007 0:17		12.69	23.87	21.57	31.17
7/17/2007 0:18		12.69	23.87	21.57	29.85
7/17/2007 0:18		12.69	23.58	21.57	28.46
7/17/2007 0:18		12.69	23.2	21.47	28.46
7/17/2007 0:18		12.69	22.91	21.38	28.56
7/17/2007 0:19		12.69	23.1	21.28	28.16
7/17/2007 0:19		12.69	23	21.19	28.06
7/17/2007 0:19		12.69	22.53	21.09	27.57
7/17/2007 0:19		12.69	22.05	21.38	26.49
7/17/2007 0:20		12.69	21.57	21.47	25.9
7/17/2007 0:20		12.69	21.19	21.38	25.13
7/17/2007 0:20		12.69	22.53	21.38	24.93
7/17/2007 0:20		12.69	22.24	21.38	24.84
7/17/2007 0:21		12.69	21.66	21.38	24.55
7/17/2007 0:21		12.69	21.09	21.28	24.45
7/17/2007 0:21		12.69	20.62	21.28	24.55
7/17/2007 0:21		12.69	20.23	21.19	24.64
7/17/2007 0:22		12.69	22.14	21.19	24.45
7/17/2007 0:22		12.69	21.86	21	24.74
7/17/2007 0:22		12.69	21.19	20.81	25.51
7/17/2007 0:22		12.69	20.62	20.62	24.93
7/17/2007 0:23		12.79	20.23	20.42	23.58
7/17/2007 0:23		12.69	21.76	20.23	24.26
7/17/2007 0:23		12.69	21.86	20.14	24.45
7/17/2007 0:23		12.69	21.38	20.52	23.77
7/18/2007 0:00		12.69	20.9	21.19	24.74
7/18/2007 0:00		12.69	20.62	21.28	23.1
7/18/2007 0:00		12.69	20.42	21.28	22.05
7/18/2007 0:00		12.69	21.76	21.28	22.53
7/18/2007 0:01		12.69	21.95	21.28	22.05
7/18/2007 0:01		12.69	21.57	21.28	21.38
7/18/2007 0:01		12.69	21.28	21.28	20.62
7/18/2007 0:01		12.69	21	21.19	20.33
7/18/2007 0:02		12.69	20.71	21.19	20.42
7/18/2007 0:02		12.69	21.86	21.19	20.42
7/18/2007 0:02		12.69	21.76	21	19.95
7/18/2007 0:02		12.69	21.38	20.9	23.2
7/18/2007 0:03		12.69	21	20.81	22.62
7/18/2007 0:03		12.69	20.71	20.71	20.04
7/18/2007 0:03		12.59	20.52	20.62	19.09
7/18/2007 0:03		12.59	21.76	20.52	21.57
7/18/2007 0:04		12.59	21.66	20.42	21.86
7/18/2007 0:04		12.59	21.28	21.19	21
7/18/2007 0:04		12.59	21	21.28	21.76
7/18/2007 0:04		12.59	20.62	21.28	21.19
7/18/2007 0:05		12.59	20.42	21.28	21.09
7/18/2007 0:05		12.59	21.28	21.28	21.57
7/18/2007 0:05		12.59	21.57	21.28	22.72
7/18/2007 0:05		12.59	21.19	21.28	22.14
7/18/2007 0:06		12.59	20.81	21.19	21.76
7/18/2007 0:06		12.59	20.42	21.19	21.38
7/18/2007 0:06		12.59	20.14	21.19	21.86
7/18/2007 0:06		12.59	19.95	21.19	21.86
7/18/2007 0:07		12.59	21.47	21.19	27.37
7/18/2007 0:07		12.59	21.19	21	28.46
7/18/2007 0:07		12.59	20.9	20.9	30.05
7/18/2007 0:07		12.59	20.62	20.81	32.5
7/18/2007 0:08		12.59	20.42	20.71	35.01
7/18/2007 0:08		12.59	20.23	20.62	37.27
7/18/2007 0:08		12.59	21.47	20.62	37.71
7/18/2007 0:08		12.59	21.19	20.52	38.94
7/18/2007 0:09		12.59	20.9	21.19	39.28
7/18/2007 0:09		12.59	20.71	21.38	40.3
7/18/2007 0:09		12.59	20.62	21.38	43.12
7/18/2007 0:09		12.59	21.57	21.38	37.49
7/18/2007 0:10		12.59	21.57	21.38	33.54
7/18/2007 0:10		12.59	21.38	21.38	40.42
7/18/2007 0:10		13.17	21.28	21.38	39.28
7/18/2007 0:10		12.69	21.19	21.38	39.84
7/18/2007 0:11		12.69	22.43	22.62	39.96
7/18/2007 0:11		12.69	23.2	23	40.42
7/18/2007 0:11		12.69	23.87	23.29	40.19
7/18/2007 0:11		12.69	24.26	23.48	41.11
7/18/2007 0:12		12.69	24.74	23.68	41.46
7/18/2007 0:12		12.69	23.29	23.77	42.76
7/18/2007 0:12		12.69	22.91	23.77	41.23
7/18/2007 0:12		12.69	22.72	22.62	41.81
7/18/2007 0:13		12.69	22.62	22.43	35.12
7/18/2007 0:13		12.69	22.53	22.24	35.33
7/18/2007 0:13		12.69	22.53	22.24	34.37
7/18/2007 0:13		12.79	22.72	22.24	35.22
7/18/2007 0:14		12.69	22.91	22.24	34.37
7/18/2007 0:14		12.79	23	22.14	37.38

7/18/2007 0:14		12.79	23.48	22.14	39.16
7/18/2007 0:14		12.69	23.2	22.14	33.33
7/18/2007 0:15		12.79	22.91	22.14	33.33
7/18/2007 0:15		12.79	23	22.14	34.27
7/18/2007 0:15		12.79	23.2	22.14	33.01
7/18/2007 0:15		12.79	23.29	22.14	41.11
7/18/2007 0:16		12.79	23.58	22.14	36.73
7/18/2007 0:16		12.79	23.77	22.14	38.94
7/18/2007 0:16		12.79	23.1	22.14	36.73
7/18/2007 0:16		12.79	23.29	22.14	33.85
7/18/2007 0:17		12.79	23.48	22.05	32.5
7/18/2007 0:17		12.79	23.29	22.05	30.66
7/18/2007 0:17		12.79	23.29	22.14	29.25
7/18/2007 0:17		12.79	23.48	22.14	27.76
7/18/2007 0:18		12.79	23.58	22.05	23.77
7/18/2007 0:18		12.79	23.2	22.05	24.06
7/18/2007 0:18		12.79	23.1	21.95	24.84
7/18/2007 0:18		12.79	23.1	21.95	25.71
7/18/2007 0:19		12.79	22.91	21.86	25.42
7/18/2007 0:19		12.69	22.72	21.86	25.32
7/18/2007 0:19		12.79	22.72	21.86	25.71
7/18/2007 0:19		12.69	22.72	21.86	25.51
7/18/2007 0:20		12.69	22.72	21.76	26
7/18/2007 0:20		12.69	22.53	21.76	25.71
7/18/2007 0:20		12.69	22.33	21.76	26.29
7/18/2007 0:20		12.69	22.43	21.76	26.59
7/18/2007 0:21		12.69	22.43	21.76	27.86
7/18/2007 0:21		12.69	22.33	21.76	28.36
7/18/2007 0:21		12.69	22.33	21.76	27.86
7/18/2007 0:21		12.69	22.33	21.76	25.61
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7/18/2007 0:23		12.69	22.14	21.76	22.62
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7/19/2007 0:01		12.69	22.14	21.86	21.38
7/19/2007 0:01		12.69	22.14	21.86	20.9
7/19/2007 0:01		12.69	22.14	21.86	20.62
7/19/2007 0:01		12.69	22.14	21.95	20.14
7/19/2007 0:02		12.69	22.14	21.95	19.85
7/19/2007 0:02		12.69	22.14	21.95	19.38
7/19/2007 0:02		12.69	22.14	21.95	19
7/19/2007 0:02		12.69	22.14	21.95	18.52
7/19/2007 0:03		12.59	22.14	21.95	17.95
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7/19/2007 0:03		12.59	22.24	21.95	17.57
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7/19/2007 0:06		12.59	22.05	21.86	17.28
7/19/2007 0:06		12.5	22.05	21.86	19.28
7/19/2007 0:06		12.5	21.95	21.86	22.24
7/19/2007 0:07		12.5	22.05	21.86	20.23
7/19/2007 0:07		12.5	22.05	21.86	21.47
7/19/2007 0:07		12.5	21.95	21.86	20.62
7/19/2007 0:07		12.5	21.95	21.86	22.81
7/19/2007 0:08		12.5	21.86	21.86	23.48
7/19/2007 0:08		12.5	21.95	21.86	26.29
7/19/2007 0:08		12.5	21.95	21.86	23.2
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7/19/2007 0:09		12.5	22.05	21.86	23.58
7/19/2007 0:09		12.5	22.05	21.86	25.51
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7/19/2007 0:11		12.5	22.24	21.86	23.58
7/19/2007 0:11		12.5	22.24	21.86	24.64
7/19/2007 0:11		12.5	22.33	21.86	28.36
7/19/2007 0:11		12.5	22.24	21.86	27.47
7/19/2007 0:12		12.5	22.33	21.86	26.49
7/19/2007 0:12		12.5	22.33	21.86	28.16
7/19/2007 0:12		12.5	22.33	21.86	28.36

7/19/2007 0:12		12.5	22.33	21.86	29.25
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7/19/2007 0:13		12.5	22.43	21.76	38.05
7/19/2007 0:13		12.5	22.33	21.76	35.54
7/19/2007 0:14		12.5	22.43	21.76	36.95
7/19/2007 0:14		12.5	22.53	21.76	36.95
7/19/2007 0:14		12.5	22.62	21.76	36.19
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7/19/2007 0:15		12.59	22.72	21.86	39.84
7/19/2007 0:16		12.59	23	21.86	35.12
7/19/2007 0:16		12.59	23.2	21.86	33.95
7/19/2007 0:16		12.59	23.2	21.86	31.78
7/19/2007 0:16		12.59	23.2	21.86	31.78
7/19/2007 0:17		12.59	22.81	21.86	32.39
7/19/2007 0:17		12.59	22.91	21.86	30.86
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7/19/2007 0:18		12.59	22.62	21.86	27.08
7/19/2007 0:18		12.59	22.62	21.86	26.49
7/19/2007 0:18		12.59	22.72	21.86	26.2
7/19/2007 0:18		12.59	22.72	21.86	26.1
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7/19/2007 0:19		12.59	22.81	21.95	25.13
7/19/2007 0:19		12.59	22.91	21.86	24.64
7/19/2007 0:20		12.59	23	21.86	23.77
7/19/2007 0:20		12.59	23.1	21.86	23.48
7/19/2007 0:20		12.59	23.2	21.95	22.62
7/19/2007 0:20		12.59	23.39	21.95	21.95
7/19/2007 0:21		12.59	23	21.95	21.95
7/19/2007 0:21		12.59	23	21.95	21.28
7/19/2007 0:21		12.59	23.1	21.95	20.42
7/19/2007 0:21		12.59	23.29	21.95	19.76
7/19/2007 0:22		12.5	23.1	21.95	19.38
7/19/2007 0:22		12.5	23	21.95	19.19
7/19/2007 0:22		12.5	23	21.95	18.52
7/19/2007 0:22		12.5	22.91	21.95	18.52
7/19/2007 0:23		12.5	22.81	21.95	18.33
7/19/2007 0:23		12.5	22.81	21.95	18.24
7/19/2007 0:23		12.5	22.81	21.95	18.62
7/19/2007 0:23		12.5	22.81	21.95	18.62
7/20/2007 0:00		12.5	22.81	21.95	18.43
7/20/2007 0:00		12.5	22.81	21.95	18.14
7/20/2007 0:00		12.5	22.91	21.95	18.24
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7/20/2007 0:01		12.5	22.81	21.95	18.62
7/20/2007 0:01		12.5	22.81	21.95	18.33
7/20/2007 0:01		12.5	22.81	21.95	18.05
7/20/2007 0:02		12.5	22.72	21.95	18.24
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7/20/2007 0:02		12.5	22.81	21.95	17.48
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7/20/2007 0:03		12.5	22.72	21.86	16.9
7/20/2007 0:03		12.4	22.72	21.86	16.81
7/20/2007 0:03		12.4	22.62	21.86	16.62
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7/20/2007 0:04		12.4	22.62	21.86	17
7/20/2007 0:04		12.4	22.62	21.86	16.71
7/20/2007 0:04		12.4	22.53	21.86	16.33
7/20/2007 0:05		12.4	22.53	21.86	16.14
7/20/2007 0:05		12.4	22.53	21.86	16.14
7/20/2007 0:05		12.4	22.43	21.86	16.14
7/20/2007 0:06		12.4	22.43	21.86	16.05
7/20/2007 0:06		12.4	22.43	21.86	16.24
7/20/2007 0:06		12.4	22.33	21.86	17.09
7/20/2007 0:06		12.4	22.33	21.86	17.28
7/20/2007 0:07		12.4	22.43	21.86	18.24
7/20/2007 0:07		12.4	22.33	21.86	18.71
7/20/2007 0:07		12.4	22.33	21.86	18.81
7/20/2007 0:07		12.4	22.33	21.86	18.71
7/20/2007 0:08		12.4	22.33	21.76	19.19
7/20/2007 0:08		12.4	22.33	21.76	22.33
7/20/2007 0:08		12.4	22.33	21.76	29.65
7/20/2007 0:08		12.4	22.33	21.76	34.69
7/20/2007 0:09		12.4	22.33	21.76	35.97
7/20/2007 0:09		12.4	22.33	21.76	36.3
7/20/2007 0:09		12.4	22.33	21.76	31.68
7/20/2007 0:09		12.4	22.43	21.76	31.68
7/20/2007 0:10		12.4	22.43	21.76	32.91
7/20/2007 0:10		12.4	22.53	21.76	36.19
7/20/2007 0:10		12.4	22.43	21.76	37.06
7/20/2007 0:10		12.4	22.62	21.76	37.17

7/20/2007 0:11		12.4	22.81	21.76	37.17
7/20/2007 0:11		12.5	23	21.76	36.51
7/20/2007 0:11		12.5	23.1	21.76	36.62
7/20/2007 0:11		12.5	22.81	21.76	36.95
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7/20/2007 0:12		12.5	23.68	21.86	38.6
7/20/2007 0:12		12.5	23.2	21.86	39.39
7/20/2007 0:13		12.5	23.29	21.86	38.6
7/20/2007 0:13		12.5	23.48	21.86	40.76
7/20/2007 0:13		12.59	23.77	21.86	39.62
7/20/2007 0:13		12.59	23.87	21.86	40.99
7/20/2007 0:14		12.59	23.29	21.86	39.39
7/20/2007 0:14		12.59	23.77	21.86	39.62
7/20/2007 0:14		12.59	24.06	21.86	39.5
7/20/2007 0:14		12.59	23.58	21.86	39.62
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7/20/2007 0:18		12.69	24.84	22.62	36.51
7/20/2007 0:18		12.69	24.84	22.33	32.81
7/20/2007 0:19		12.69	24.06	22.24	28.66
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7/20/2007 0:19		12.69	24.74	22.24	25.32
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7/20/2007 0:20		12.69	24.55	22.33	22.62
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7/20/2007 0:21		12.69	24.55	22.33	21.57
7/20/2007 0:22		12.69	24.74	22.33	21.09
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7/20/2007 0:22		12.69	23.97	22.43	20.9
7/20/2007 0:22		12.69	24.06	22.43	20.04
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7/20/2007 0:23		12.59	23.77	22.43	19.38
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7/20/2007 0:23		12.59	23.68	22.43	18.33
7/21/2007 0:00		12.59	23.58	22.43	19
7/21/2007 0:00		12.59	23.68	22.43	19.26
7/21/2007 0:00		12.59	23.58	22.53	18.9
7/21/2007 0:00		12.59	23.68	22.53	19
7/21/2007 0:01		12.59	23.58	22.53	18.05
7/21/2007 0:01		12.59	23.58	22.43	17.76
7/21/2007 0:01		12.59	23.58	22.33	17.38
7/21/2007 0:01		12.59	23.48	22.33	17.28
7/21/2007 0:02		12.59	23.58	22.33	17.38
7/21/2007 0:02		12.59	23.68	22.33	19.38
7/21/2007 0:02		12.59	23.68	22.33	19.19
7/21/2007 0:02		12.59	23.48	22.33	18.05
7/21/2007 0:03		12.59	23.48	22.33	17.28
7/21/2007 0:03		12.59	23.48	22.33	18.9
7/21/2007 0:03		12.5	23.48	22.33	18.81
7/21/2007 0:03		12.5	23.48	22.33	19.09
7/21/2007 0:04		12.5	23.48	22.33	19.09
7/21/2007 0:04		12.5	23.29	22.33	17.86
7/21/2007 0:04		12.5	23.39	22.33	17
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7/21/2007 0:05		12.5	23.39	22.33	16.52
7/21/2007 0:05		12.5	23.39	22.33	16.14
7/21/2007 0:05		12.5	23.29	22.33	15.86
7/21/2007 0:05		12.5	23.2	22.33	15.66
7/21/2007 0:06		12.5	23.2	22.33	15.76
7/21/2007 0:06		12.5	23.1	22.24	16.14
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7/21/2007 0:06		12.5	23	22.24	21.95
7/21/2007 0:07		12.5	23	22.14	23
7/21/2007 0:07		12.5	23	22.14	24.16
7/21/2007 0:07		12.5	22.91	22.14	25.81
7/21/2007 0:07		12.5	22.81	22.05	31.17
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7/21/2007 0:08		12.5	22.43	21.95	41.69
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7/21/2007 0:09		12.5	22.72	21.95	40.3
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7/21/2007 0:10		12.5	22.81	21.95	36.73
7/21/2007 0:10		12.5	23	22.05	40.53
7/21/2007 0:10		12.59	23.2	22.05	43.72
7/21/2007 0:11		12.59	23.39	22.05	39.05
7/21/2007 0:11		12.59	23.48	22.05	40.99
7/21/2007 0:11		12.59	23.39	22.14	40.3
7/21/2007 0:11		12.59	23.39	22.14	41.11
7/21/2007 0:12		12.59	23.77	22.14	41.34
7/21/2007 0:12		12.59	24.06	22.14	42.16
7/21/2007 0:12		12.59	24.35	22.14	42.28
7/21/2007 0:12		12.69	24.45	22.14	41.69
7/21/2007 0:13		12.69	24.64	22.24	40.88
7/21/2007 0:13		12.69	24.06	22.24	42.16
7/21/2007 0:13		12.69	23.39	22.24	41.58
7/21/2007 0:13		12.69	23.58	22.33	42.16
7/21/2007 0:14		12.69	23.77	22.33	42.88
7/21/2007 0:14		12.69	24.16	22.33	43.6
7/21/2007 0:14		12.69	24.06	22.43	44.33
7/21/2007 0:14		12.69	24.06	22.43	43
7/21/2007 0:15		12.69	24.45	22.43	43.6
7/21/2007 0:15		12.79	24.26	22.53	44.46
7/21/2007 0:15		12.79	24.74	22.53	42.52
7/21/2007 0:15		12.79	24.93	22.53	41.23
7/21/2007 0:16		12.79	25.22	22.62	40.19
7/21/2007 0:16		12.79	24.74	22.62	43.24
7/21/2007 0:16		12.79	24.64	22.62	42.88
7/21/2007 0:16		12.79	24.93	22.62	43.72
7/21/2007 0:17		12.88	25.51	22.72	39.73
7/21/2007 0:17		12.88	25.81	22.72	45.45
7/21/2007 0:17		12.88	26	22.72	45.83
7/21/2007 0:17		12.88	24.84	22.72	39.84
7/21/2007 0:18		12.88	24.35	22.81	36.73
7/21/2007 0:18		12.88	24.64	22.81	35.44
7/21/2007 0:18		12.88	24.93	22.72	32.6
7/21/2007 0:18		12.88	24.55	22.72	28.36
7/21/2007 0:19		12.88	24.35	22.72	27.27
7/21/2007 0:19		12.88	24.26	22.72	26.68
7/21/2007 0:19		12.88	24.16	22.72	26.39
7/21/2007 0:19		12.88	24.35	22.72	26.2
7/21/2007 0:20		12.88	24.45	22.81	26.59
7/21/2007 0:20		12.88	24.55	22.81	26.39
7/21/2007 0:20		12.88	24.35	22.81	25.71
7/21/2007 0:20		12.88	24.55	22.81	25.32
7/21/2007 0:21		12.79	24.93	22.81	24.84
7/21/2007 0:21		12.88	24.93	22.81	24.93
7/21/2007 0:21		12.79	25.03	22.81	24.35
7/21/2007 0:21		12.79	25.13	22.81	23.77
7/21/2007 0:22		12.79	24.74	22.81	23.58
7/21/2007 0:22		12.79	24.55	22.91	23.97
7/21/2007 0:22		12.79	24.55	22.81	23.58
7/21/2007 0:22		12.79	24.64	22.81	23.2
7/21/2007 0:23		12.79	24.74	22.81	21.95
7/21/2007 0:23		12.79	24.74	22.81	21.66
7/21/2007 0:23		12.79	24.26	22.81	20.9
7/21/2007 0:23		12.79	24.35	22.81	20.33
7/22/2007 0:00		12.79	24.64	22.81	19.95
7/22/2007 0:00		12.79	24.84	22.81	19.85
7/22/2007 0:00		12.79	24.74	22.81	19.76
7/22/2007 0:00		12.79	24.35	22.81	19.85
7/22/2007 0:01		12.69	24.16	22.81	19.95
7/22/2007 0:01		12.69	24.26	22.91	19.19
7/22/2007 0:01		12.69	24.35	22.81	18.05
7/22/2007 0:01		12.69	24.35	22.91	17.95
7/22/2007 0:02		12.69	24.35	22.81	18.43
7/22/2007 0:02		12.69	24.35	22.81	18.52
7/22/2007 0:02		12.69	24.35	22.81	18.9
7/22/2007 0:02		12.69	24.45	22.81	19.19
7/22/2007 0:03		12.69	24.16	22.72	18.33
7/22/2007 0:03		12.69	24.06	22.72	18.14
7/22/2007 0:03		12.69	23.97	22.72	17.19
7/22/2007 0:03		12.69	23.87	22.72	16.81
7/22/2007 0:04		12.69	23.87	22.62	17.48
7/22/2007 0:04		12.69	23.68	22.62	17.86
7/22/2007 0:04		12.69	23.77	22.62	17.48
7/22/2007 0:04		12.59	23.68	22.62	17.28
7/22/2007 0:05		12.59	23.68	22.53	16.71
7/22/2007 0:05		12.59	23.58	22.53	16.43
7/22/2007 0:05		12.59	23.48	22.53	16.52
7/22/2007 0:05		12.59	23.48	22.53	16.81
7/22/2007 0:06		12.59	23.48	22.53	16.71
7/22/2007 0:06		12.59	23.39	22.53	17.09
7/22/2007 0:06		12.59	23.2	22.43	19.76
7/22/2007 0:06		12.59	23.2	22.43	24.55
7/22/2007 0:07		12.59	23.29	22.43	25.13
7/22/2007 0:07		12.59	23.29	22.43	28.85

7/22/2007 0:07		12.59	23.2	22.43	32.7
7/22/2007 0:07		12.59	23.1	22.33	35.01
7/22/2007 0:08		12.59	23	22.33	37.17
7/22/2007 0:08		12.59	23	22.33	38.94
7/22/2007 0:08		12.59	23.1	22.33	41.58
7/22/2007 0:08		12.59	23.29	22.33	40.99
7/22/2007 0:09		12.59	23.39	22.33	41.46
7/22/2007 0:09		12.59	23.39	22.43	40.07
7/22/2007 0:09		12.59	23.48	22.43	33.95
7/22/2007 0:09		12.69	23.48	22.43	36.3
7/22/2007 0:10		12.59	23.58	22.43	40.99
7/22/2007 0:10		12.69	23.58	22.43	41.46
7/22/2007 0:10		12.69	23.58	22.43	41.23
7/22/2007 0:10		12.69	23.68	22.43	41.23
7/22/2007 0:11		12.69	23.87	22.43	40.88
7/22/2007 0:11		12.69	23.97	22.53	41.93
7/22/2007 0:11		12.69	23.87	22.53	43.24
7/22/2007 0:11		12.69	24.16	22.53	42.52
7/22/2007 0:12		12.69	24.55	22.62	43.12
7/22/2007 0:12		12.79	24.64	22.62	42.64
7/22/2007 0:12		12.79	24.16	22.72	41.69
7/22/2007 0:12		12.79	24.55	22.81	42.4
7/22/2007 0:13		12.79	25.03	22.91	42.05
7/22/2007 0:13		12.79	25.13	22.81	42.64
7/22/2007 0:13		12.88	25.22	22.81	42.16
7/22/2007 0:13		12.79	24.64	22.81	43.48
7/22/2007 0:14		12.88	24.64	22.81	42.52
7/22/2007 0:14		12.88	25.13	22.81	43
7/22/2007 0:14		12.88	25.42	22.81	43.97
7/22/2007 0:14		12.88	25.03	22.81	43.84
7/22/2007 0:15		12.88	24.93	22.81	43.84
7/22/2007 0:15		12.88	25.42	22.81	45.33
7/22/2007 0:15		12.88	25.81	22.91	41.11
7/22/2007 0:15		12.88	26	22.91	44.7
7/22/2007 0:16		12.98	25.51	22.91	43.6
7/22/2007 0:16		12.98	25.13	22.91	44.7
7/22/2007 0:16		12.98	25.51	23	45.96
7/22/2007 0:16		12.98	25.71	23	46.08
7/22/2007 0:17		12.98	25.9	23	45.2
7/22/2007 0:17		12.98	26.1	23.1	44.7
7/22/2007 0:17		12.98	26.1	23.2	47.76
7/22/2007 0:17		12.98	25.22	23.39	44.83
7/22/2007 0:18		12.98	24.93	23.48	44.46
7/22/2007 0:18		12.98	25.13	23.58	38.05
7/22/2007 0:18		12.98	25.13	23.39	41.69
7/22/2007 0:18		12.98	25.03	23.2	41.81
7/22/2007 0:19		12.98	25.13	23.2	40.65
7/22/2007 0:19		12.98	25.13	23.2	36.95
7/22/2007 0:19		12.98	24.84	23.2	34.69
7/22/2007 0:19		12.98	25.22	23.2	31.68
7/22/2007 0:20		12.98	25.42	23.2	28.36
7/22/2007 0:20		12.98	25.71	23.2	26.2
7/22/2007 0:20		12.98	25.13	23.29	25.42
7/22/2007 0:20		12.98	25.61	23.2	24.16
7/22/2007 0:21		12.98	26	23.2	23.2
7/22/2007 0:21		12.98	26	23.2	23.2
7/22/2007 0:21		12.98	26	23.2	24.55
7/22/2007 0:21		12.98	26.1	23.29	25.03
7/22/2007 0:22		12.98	25.51	23.48	24.35
7/22/2007 0:22		12.98	25.22	23.58	23.68
7/22/2007 0:22		12.98	25.51	23.68	23.1
7/22/2007 0:22		12.98	25.81	23.77	22.53
7/22/2007 0:23		12.98	26	23.87	21.95
7/22/2007 0:23		12.88	25.32	23.97	21.86
7/22/2007 0:23		12.88	25.32	23.97	21.28
7/22/2007 0:23		12.88	25.61	23.68	20.52
7/23/2007 0:00		12.88	25.81	23.68	20.62
7/23/2007 0:00		12.88	26	23.58	20.33
7/23/2007 0:00		12.88	26	23.58	20.62
7/23/2007 0:00		12.88	26.1	23.58	20.52
7/23/2007 0:01		12.88	25.81	23.58	20.81
7/23/2007 0:01		12.88	25.13	23.58	20.14
7/23/2007 0:01		12.88	25.42	23.58	19.19
7/23/2007 0:01		12.88	25.61	23.58	18.52
7/23/2007 0:02		12.88	25.71	23.58	18.24
7/23/2007 0:02		12.88	25.61	23.58	18.43
7/23/2007 0:02		12.88	25.61	23.48	18.05
7/23/2007 0:02		12.79	25.13	23.29	18.43
7/23/2007 0:03		12.79	24.84	23.29	18.62
7/23/2007 0:03		12.79	24.93	23.29	19.09
7/23/2007 0:03		12.79	25.03	23.29	17.95
7/23/2007 0:03		12.79	24.74	23.29	18.52
7/23/2007 0:04		12.79	24.64	23.29	17.57
7/23/2007 0:04		12.79	24.74	23.29	17.19
7/23/2007 0:04		12.79	24.74	23.29	17
7/23/2007 0:04		12.79	24.74	23.29	17.28
7/23/2007 0:05		12.79	24.64	23.2	17.09
7/23/2007 0:05		12.79	24.64	23.29	17.48
7/23/2007 0:05		12.69	24.55	23.2	17.57

7/23/2007 0:05		12.69	24.45	23.2	17.48
7/23/2007 0:06		12.69	24.16	23.1	17.95
7/23/2007 0:06		12.69	24.16	23.1	18.43
7/23/2007 0:06		12.69	24.06	23.1	19.66
7/23/2007 0:06		12.69	23.97	23	23.58
7/23/2007 0:07		12.69	23.87	23.1	24.74
7/23/2007 0:07		12.69	23.87	23.1	26.1
7/23/2007 0:07		12.69	23.97	23.1	27.76
7/23/2007 0:07		12.69	23.87	23.1	31.27
7/23/2007 0:08		12.69	23.77	23.1	34.59
7/23/2007 0:08		12.69	23.68	23.1	37.6
7/23/2007 0:08		12.69	23.58	23.1	40.76
7/23/2007 0:08		12.69	23.58	23.1	40.53
7/23/2007 0:09		12.69	23.58	23.1	41.46
7/23/2007 0:09		12.69	23.58	23.1	41.81
7/23/2007 0:09		12.79	23.77	23.1	33.43
7/23/2007 0:09		12.69	23.87	23.1	35.76
7/23/2007 0:10		12.79	23.97	23.1	40.76
7/23/2007 0:10		12.79	23.97	23.1	40.65
7/23/2007 0:10		12.79	24.06	23.1	41.11
7/23/2007 0:10		12.79	24.06	23.1	40.42
7/23/2007 0:11		12.79	24.16	23.1	39.84
7/23/2007 0:11		12.88	24.45	23.39	40.07
7/23/2007 0:11		12.88	31.57	23.97	39.96
7/23/2007 0:11		12.88	41.46	24.35	40.19
7/23/2007 0:12		13.08	43.72	24.45	40.76
7/23/2007 0:12		13.08	27.76	25.22	40.65
7/23/2007 0:12		13.08	27.86	26	41.93
7/23/2007 0:12		13.17	28.36	26.49	42.28
7/23/2007 0:13		13.27	27.67	27.27	41.58
7/23/2007 0:13		13.27	27.17	28.16	41.93
7/23/2007 0:13		13.27	27.76	29.05	41.69
7/23/2007 0:13		13.27	28.26	29.95	41.34
7/23/2007 0:14		13.27	28.95	30.05	41.11
7/23/2007 0:14		13.27	29.15	29.95	42.05
7/23/2007 0:14		13.27	26.88	29.75	40.19
7/23/2007 0:14		13.27	25.61	29.65	35.33
7/23/2007 0:15		13.27	25.03	29.55	38.38
7/23/2007 0:15		13.27	25.03	26.59	40.99
7/23/2007 0:15		13.27	25.32	25.32	40.3
7/23/2007 0:15		13.27	25.61	24.84	44.09
7/23/2007 0:16		13.27	25.9	24.64	42.4
7/23/2007 0:16		13.27	26.1	24.45	43.6
7/23/2007 0:16		13.27	25.03	24.35	39.84
7/23/2007 0:16		13.27	24.93	24.35	33.85
7/23/2007 0:17		13.27	25.22	24.26	37.82
7/23/2007 0:17		13.27	25.51	24.26	38.6
7/23/2007 0:17		13.37	25.71	24.16	42.4
7/23/2007 0:17		13.37	25.9	24.16	37.38
7/23/2007 0:18		13.37	26.1	24.06	32.6
7/23/2007 0:18		13.37	26.29	24.06	32.6
7/23/2007 0:18		13.37	24.93	24.06	33.01
7/23/2007 0:18		13.37	25.22	24.06	31.57
7/23/2007 0:19		13.37	25.61	24.06	28.56
7/23/2007 0:19		13.37	25.81	23.97	28.66
7/23/2007 0:19		13.37	26	24.26	28.06
7/23/2007 0:19		13.37	26.2	24.45	28.06
7/23/2007 0:20		13.37	25.03	24.55	27.76
7/23/2007 0:20		13.37	25.22	24.74	27.47
7/23/2007 0:20		13.46	25.42	24.84	26.88
7/23/2007 0:20		13.46	25.61	24.93	26.1
7/23/2007 0:21		13.37	25.81	25.03	25.71
7/23/2007 0:21		13.46	25.13	25.13	25.42
7/23/2007 0:21		13.46	25.32	25.03	26
7/23/2007 0:21		13.46	25.61	24.45	26
7/23/2007 0:22		13.46	25.81	24.26	25.61
7/23/2007 0:22		13.46	25.9	24.16	24.74
7/23/2007 0:22		13.46	26.1	24.06	24.16
7/23/2007 0:22		13.46	25.81	24.06	23.87
7/23/2007 0:23		13.46	25.22	24.06	23.2
7/23/2007 0:23		13.46	25.42	23.97	22.33
7/23/2007 0:23		13.56	25.61	23.97	21.86
7/23/2007 0:23		13.56	25.81	23.87	21.28

date	SPIN	Holding Tank	Gravel Reactor	Norpac Reactor	Ambient
7/25/2007 0:00		25.42	25.81	25.22	20.62
7/25/2007 0:00		25.42	25.81	25.22	21.28
7/25/2007 0:00		25.32	25.61	25.22	21
7/25/2007 0:00		25.32	25.42	24.93	21.95
7/25/2007 0:01		25.32	25.61	24.74	21.28
7/25/2007 0:01		25.32	25.61	24.64	21.38
7/25/2007 0:01		25.32	25.61	24.55	21.86
7/25/2007 0:01		25.32	25.42	24.55	20.33
7/25/2007 0:02		25.22	25.61	24.45	19.66
7/25/2007 0:02		25.22	25.61	24.45	19.47
7/25/2007 0:02		25.22	25.61	24.45	20.14
7/25/2007 0:02		25.22	25.61	24.35	19.19
7/25/2007 0:03		25.22	25.51	24.35	18.71
7/25/2007 0:03		25.13	25.32	24.35	19.19
7/25/2007 0:03		25.13	25.32	24.35	20.04
7/25/2007 0:03		25.13	25.32	24.26	20.71
7/25/2007 0:04		25.13	25.22	24.26	20.52
7/25/2007 0:04		25.13	25.22	24.26	20.42
7/25/2007 0:04		25.13	25.13	24.26	20.14
7/25/2007 0:04		25.03	25.13	24.26	19.76
7/25/2007 0:05		25.03	25.03	24.26	19.38
7/25/2007 0:05		25.03	25.22	24.26	19.47
7/25/2007 0:05		24.93	25.22	24.16	20.33
7/25/2007 0:05		24.93	25.13	24.16	20.81
7/25/2007 0:06		24.93	25.03	24.16	20.81
7/25/2007 0:06		24.93	24.93	24.16	21.38
7/25/2007 0:06		24.93	25.13	24.26	22.91
7/25/2007 0:06		24.93	25.13	24.35	26.59
7/25/2007 0:07		24.93	25.13	24.35	27.96
7/25/2007 0:07		24.93	25.03	24.35	30.05
7/25/2007 0:07		24.93	24.93	24.35	32.5
7/25/2007 0:07		24.93	24.93	24.35	34.06
7/25/2007 0:08		24.93	25.13	24.35	37.06
7/25/2007 0:08		24.93	25.13	24.35	38.38
7/25/2007 0:08		24.93	25.13	24.35	35.65
7/25/2007 0:08		24.93	25.13	24.35	38.05
7/25/2007 0:09		24.93	25.13	24.45	35.97
7/25/2007 0:09		24.93	25.13	24.45	35.54
7/25/2007 0:09		24.93	25.22	24.45	32.29
7/25/2007 0:09		24.93	25.22	24.45	35.86
7/25/2007 0:10		24.93	25.32	24.55	38.27
7/25/2007 0:10		24.16	25.32	24.55	38.83
7/25/2007 0:10		24.06	25.22	24.64	38.94
7/25/2007 0:10		24.16	25.32	24.74	39.84
7/25/2007 0:11		24.35	25.42	24.84	39.28
7/25/2007 0:11		24.06	25.51	24.84	39.73
7/25/2007 0:11		24.06	25.61	24.93	40.07
7/25/2007 0:11		24.06	25.32	25.03	39.5
7/25/2007 0:12		24.06	25.51	25.13	39.84
7/25/2007 0:12		24.45	25.61	25.22	40.88
7/25/2007 0:12		24.45	25.81	25.03	41.81
7/25/2007 0:12		24.45	25.32	25.03	42.16
7/25/2007 0:13		24.45	25.42	24.93	42.76
7/25/2007 0:13		24.45	25.71	25.03	43.24
7/25/2007 0:13		25.13	25.32	25.13	44.46
7/25/2007 0:13		25.13	25.42	25.13	45.7
7/25/2007 0:14		25.13	25.61	25.13	43.48
7/25/2007 0:14		25.13	25.61	25.22	35.97
7/25/2007 0:14		25.13	25.71	25.42	38.94
7/25/2007 0:14		25.13	25.32	25.61	34.9
7/25/2007 0:15		25.13	25.51	25.81	33.64
7/25/2007 0:15		25.13	25.81	26	32.91
7/25/2007 0:15		25.13	25.51	26.1	32.81
7/25/2007 0:15		25.13	25.71	26.29	33.33
7/25/2007 0:16		25.13	25.42	26.29	33.95
7/25/2007 0:16		25.13	25.61	25.9	33.54
7/25/2007 0:16		25.13	25.51	25.81	32.09
7/25/2007 0:16		25.13	25.51	25.61	30.05
7/25/2007 0:17		25.13	25.51	25.51	29.35
7/25/2007 0:17		25.13	25.42	25.42	25.61
7/25/2007 0:17		25.13	25.42	25.42	24.26
7/25/2007 0:17		25.13	25.51	25.42	25.13
7/25/2007 0:18		25.13	25.42	25.42	26.1
7/25/2007 0:18		25.13	25.51	25.32	27.37
7/25/2007 0:18		25.13	25.32	25.32	27.47
7/25/2007 0:18		25.13	25.32	25.22	27.17
7/25/2007 0:19		25.13	25.13	25.22	27.17
7/25/2007 0:19		25.13	25.22	25.32	27.17
7/25/2007 0:19		25.13	25.13	25.32	25.71
7/25/2007 0:19		25.13	25.03	25.42	25.81
7/25/2007 0:20		25.13	25.22	25.42	24.84
7/25/2007 0:20		25.03	25.13	25.51	23.87
7/25/2007 0:20		25.03	25.03	25.51	24.35
7/25/2007 0:20		25.03	25.13	25.51	24.06
7/25/2007 0:21		25.13	25.03	25.51	23.48
7/25/2007 0:21		25.13	25.13	25.32	22.91

7/25/2007 0:21		25.13	24.93	25.22	22.33
7/25/2007 0:21		25.13	25.13	25.22	21.66
7/25/2007 0:22		25.03	25.03	25.13	21
7/25/2007 0:22		25.13	25.13	25.13	20.9
7/25/2007 0:22		25.03	25.13	25.13	21.38
7/25/2007 0:22		25.13	25.03	25.13	21.57
7/25/2007 0:23		25.13	25.13	25.13	20.33
7/25/2007 0:23		25.13	25.03	25.03	21.57
7/25/2007 0:23		25.13	25.13	25.03	22.05
7/25/2007 0:23		25.13	25.03	25.03	22.24
7/26/2007 0:00		25.13	25.03	25.03	21.95
7/26/2007 0:00		25.13	25.03	25.03	21.86
7/26/2007 0:00		25.13	25.03	25.03	22.33
7/26/2007 0:00		25.13	24.74	25.03	22.05
7/26/2007 0:01		25.13	24.55	24.93	22.62
7/26/2007 0:01		25.13	25.03	24.93	21.47
7/26/2007 0:01		25.13	24.84	24.93	20.33
7/26/2007 0:01		25.13	25.03	24.93	19.85
7/26/2007 0:02		25.13	24.93	24.93	19.76
7/26/2007 0:02		25.13	24.74	24.93	19.76
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7/26/2007 0:02		25.13	24.93	24.93	18.81
7/26/2007 0:03		25.03	24.84	24.93	17.95
7/26/2007 0:03		25.13	24.64	24.84	17.95
7/26/2007 0:03		25.13	24.93	24.84	18.43
7/26/2007 0:03		25.13	24.64	24.74	18.43
7/26/2007 0:04		25.13	24.35	24.74	18.62
7/26/2007 0:04		25.13	24.93	24.74	18.43
7/26/2007 0:04		25.13	24.84	24.74	18.71
7/26/2007 0:04		25.13	24.64	24.64	18.81
7/26/2007 0:05		25.13	24.84	24.64	18.52
7/26/2007 0:05		25.13	24.55	24.64	17.86
7/26/2007 0:05		25.13	24.16	24.64	18.33
7/26/2007 0:05		25.13	24.93	24.55	17.57
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7/26/2007 0:06		25.13	24.35	24.45	17.57
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7/26/2007 0:08		25.13	24.45	24.74	24.84
7/26/2007 0:08		25.13	24.26	24.74	24.74
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7/26/2007 0:09		25.13	24.55	24.84	25.71
7/26/2007 0:09		25.13	24.84	24.84	25.81
7/26/2007 0:09		25.03	24.64	24.84	27.47
7/26/2007 0:09		25.13	24.74	24.84	31.57
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7/26/2007 0:11		25.03	24.74	24.93	34.37
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7/26/2007 0:14		25.03	25.13	25.51	39.28
7/26/2007 0:14		25.13	25.22	25.61	41.46
7/26/2007 0:15		25.03	25.22	25.61	39.16
7/26/2007 0:15		25.03	25.22	25.71	38.49
7/26/2007 0:15		25.03	25.22	25.81	33.12
7/26/2007 0:15		25.03	25.22	25.9	34.69
7/26/2007 0:16		25.03	25.32	26	42.64
7/26/2007 0:16		25.03	25.32	26.1	42.28
7/26/2007 0:16		25.03	25.32	26.2	42.76
7/26/2007 0:16		25.03	25.32	26.39	37.27
7/26/2007 0:17		25.03	25.42	26.49	42.05
7/26/2007 0:17		25.03	25.42	26.49	42.88
7/26/2007 0:17		25.13	25.42	26.59	42.16
7/26/2007 0:17		25.13	25.42	26.29	34.59
7/26/2007 0:18		25.03	25.51	26.2	29.95
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7/26/2007 0:18		25.13	25.51	26	29.05
7/26/2007 0:18		25.03	25.51	26	27.17
7/26/2007 0:19		25.03	25.51	26	25.81
7/26/2007 0:19		25.03	25.61	26	25.13
7/26/2007 0:19		25.13	25.51	25.9	24.45

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7/26/2007 0:20		25.03	25.71	26.1	22.33
7/26/2007 0:20		25.03	25.61	26.29	21.86
7/26/2007 0:21		25.13	25.71	26.39	21
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7/26/2007 0:21		25.03	25.61	26.49	21.47
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7/26/2007 0:22		25.13	25.71	26.78	20.14
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7/26/2007 0:23		25.13	25.71	26.2	20.52
7/26/2007 0:23		25.13	25.71	26	19.95
7/26/2007 0:23		25.13	25.71	26	19.57
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7/27/2007 0:00		25.13	25.71	25.81	19.28
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7/27/2007 0:03		25.13	25.71	26	16.81
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7/27/2007 0:06		25.13	25.42	25.42	15.95
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7/27/2007 0:07		25.13	25.61	25.32	17.67
7/27/2007 0:07		25.13	25.42	25.32	18.24
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7/27/2007 0:08		25.13	25.51	25.32	20.33
7/27/2007 0:08		25.22	25.51	24.93	22.05
7/27/2007 0:08		25.22	25.13	24.55	23.2
7/27/2007 0:08		25.13	25.51	24.45	22.53
7/27/2007 0:09		23.77	25.42	24.93	24.45
7/27/2007 0:09		23.77	25.51	25.13	27.08
7/27/2007 0:09		23.77	25.32	25.22	22.91
7/27/2007 0:09		23.77	25.71	25.22	23
7/27/2007 0:10		23.77	25.61	25.32	22.05
7/27/2007 0:10		23.77	25.71	25.32	22.14
7/27/2007 0:10		23.77	25.61	25.32	23.1
7/27/2007 0:10		23.77	25.81	25.32	22.62
7/27/2007 0:11		23.77	25.71	25.32	24.84
7/27/2007 0:11		23.77	25.71	25.32	25.32
7/27/2007 0:11		23.77	25.61	25.32	27.08
7/27/2007 0:11		23.77	25.81	25.32	28.26
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7/27/2007 0:12		23.77	25.9	25.32	28.66
7/27/2007 0:12		23.77	25.81	25.32	29.05
7/27/2007 0:12		23.77	26	25.42	31.78
7/27/2007 0:13		23.77	25.9	25.42	29.95
7/27/2007 0:13		23.77	25.81	25.42	29.45
7/27/2007 0:13		23.77	25.9	25.42	33.12
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7/27/2007 0:14		23.77	26	25.61	29.25
7/27/2007 0:14		23.77	26	25.51	28.26
7/27/2007 0:14		23.77	26	25.61	27.96
7/27/2007 0:14		23.77	26.1	25.61	29.75
7/27/2007 0:15		23.87	26.1	25.51	30.56
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7/27/2007 0:16		23.87	26.2	25.42	36.19
7/27/2007 0:16		23.87	26.29	25.42	29.65
7/27/2007 0:16		23.87	26.29	25.42	28.66
7/27/2007 0:16		23.87	26.29	25.51	28.06
7/27/2007 0:17		23.87	26.29	25.61	26.49
7/27/2007 0:17		23.87	26.29	25.71	25.61
7/27/2007 0:17		23.87	26.29	25.81	25.03
7/27/2007 0:17		23.87	26.39	25.9	25.03

7/27/2007 0:18		23.87	26.39	25.9	23.58
7/27/2007 0:18		23.87	26.39	25.71	21.38
7/27/2007 0:18		23.87	26.29	25.71	20.52
7/27/2007 0:18		23.87	26.2	25.61	20.23
7/27/2007 0:19		23.87	26	25.51	20.33
7/27/2007 0:19		23.87	26.39	25.42	19.95
7/27/2007 0:19		23.87	26.1	25.42	19.28
7/27/2007 0:19		23.87	26.2	25.42	18.52
7/27/2007 0:20		23.87	26.39	25.42	17.95
7/27/2007 0:20		23.87	26.2	25.32	17.76
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7/27/2007 0:21		23.87	26.2	25.51	16.9
7/27/2007 0:21		23.87	26.39	25.51	16.71
7/27/2007 0:22		23.87	26.29	25.61	16.62
7/27/2007 0:22		23.87	26.49	25.51	16.52
7/27/2007 0:22		23.97	26.29	25.51	16.62
7/27/2007 0:22		23.87	26.39	25.51	16.52
7/27/2007 0:23		23.97	26.39	25.51	16.62
7/27/2007 0:23		23.97	26.29	25.42	16.71
7/27/2007 0:23		23.97	26.49	25.42	16.71
7/27/2007 0:23		23.97	26.39	25.42	16.81
7/28/2007 0:00		23.97	26.39	25.32	16.81
7/28/2007 0:00		23.97	26.39	25.32	16.9
7/28/2007 0:00		23.97	26.39	25.32	16.81
7/28/2007 0:00		23.97	26.29	25.32	16.9
7/28/2007 0:01		23.97	26.2	25.32	16.81
7/28/2007 0:01		23.97	26.39	25.32	16.71
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7/28/2007 0:01		23.97	26.2	25.32	16.62
7/28/2007 0:02		23.97	26.29	25.32	16.62
7/28/2007 0:02		23.97	26.29	25.32	16.62
7/28/2007 0:02		23.97	26.1	25.32	16.62
7/28/2007 0:03		23.97	26.39	25.32	16.71
7/28/2007 0:03		23.97	26.2	25.32	16.71
7/28/2007 0:03		23.97	26.1	25.32	16.62
7/28/2007 0:03		23.97	25.9	25.22	16.33
7/28/2007 0:04		23.97	26.39	25.22	16.43
7/28/2007 0:04		23.97	26.1	25.22	16.71
7/28/2007 0:04		23.97	26.39	25.22	16.52
7/28/2007 0:04		23.97	26.1	25.22	16.14
7/28/2007 0:05		24.06	26.39	25.13	15.86
7/28/2007 0:05		24.06	26.1	25.03	15.95
7/28/2007 0:05		24.06	26.1	24.93	16.05
7/28/2007 0:05		24.06	25.9	24.93	15.86
7/28/2007 0:06		24.06	26.29	24.84	15.86
7/28/2007 0:06		24.06	26.1	24.74	15.95
7/28/2007 0:06		24.06	26.1	24.74	16.14
7/28/2007 0:06		24.06	25.9	24.64	16.33
7/28/2007 0:07		24.06	26.39	24.55	16.52
7/28/2007 0:07		24.06	26.1	25.03	17.19
7/28/2007 0:07		24.06	26.2	25.03	21.86
7/28/2007 0:07		24.06	26.39	25.03	20.81
7/28/2007 0:08		24.06	26.1	25.03	25.81
7/28/2007 0:08		24.06	26	25.03	25.32
7/28/2007 0:08		24.06	25.71	25.03	25.51
7/28/2007 0:08		24.06	26.29	25.03	22.91
7/28/2007 0:09		24.06	26	25.13	22.81
7/28/2007 0:09		24.06	26.39	25.13	29.05
7/28/2007 0:09		24.06	26.2	25.03	28.36
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7/28/2007 0:10		24.06	26.39	25.13	35.22
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7/28/2007 0:10		24.06	26.39	25.03	36.62
7/28/2007 0:10		24.06	26.39	25.03	34.59
7/28/2007 0:11		24.06	26.2	25.03	30.26
7/28/2007 0:11		24.06	26.39	25.03	29.45
7/28/2007 0:11		24.06	26.29	25.03	26.39
7/28/2007 0:11		24.06	26.49	25.03	27.57
7/28/2007 0:12		24.06	26.29	25.03	27.37
7/28/2007 0:12		24.06	26.49	25.32	27.27
7/28/2007 0:12		24.06	26.39	25.32	27.96
7/28/2007 0:12		24.06	26.59	25.32	29.35
7/28/2007 0:13		24.06	26.49	25.32	33.01
7/28/2007 0:13		24.06	26.39	25.32	31.06
7/28/2007 0:13		24.16	26.29	25.32	30.56
7/28/2007 0:13		24.06	26.49	25.32	29.65
7/28/2007 0:14		24.16	26.49	25.32	27.86
7/28/2007 0:14		24.16	26.68	25.32	27.76
7/28/2007 0:14		24.16	26.49	25.32	27.96
7/28/2007 0:14		24.16	26.68	25.32	29.05
7/28/2007 0:15		24.16	26.59	25.32	29.45
7/28/2007 0:15		24.16	26.68	25.32	30.86
7/28/2007 0:15		24.16	26.59	25.32	30.86
7/28/2007 0:15		24.16	26.68	25.32	28.95
7/28/2007 0:16		24.16	26.59	25.42	28.46

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7/28/2007 0:16		24.16	26.59	25.42	27.27
7/28/2007 0:16		24.16	26.68	25.42	27.17
7/28/2007 0:17		24.16	26.59	25.42	28.36
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7/28/2007 0:17		24.16	26.68	25.42	27.57
7/28/2007 0:17		24.16	26.59	25.42	27.17
7/28/2007 0:18		24.16	26.59	25.42	26.98
7/28/2007 0:18		24.16	26.78	25.42	26.2
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7/28/2007 0:18		24.16	26.88	25.42	30.46
7/28/2007 0:19		24.16	26.68	25.42	33.74
7/28/2007 0:19		24.16	26.78	25.42	31.78
7/28/2007 0:19		24.16	26.88	25.42	27.47
7/28/2007 0:19		24.16	26.68	25.42	24.16
7/28/2007 0:20		24.16	26.88	25.42	22.62
7/28/2007 0:20		24.16	26.68	25.42	21.28
7/28/2007 0:20		24.16	26.88	25.42	20.42
7/28/2007 0:20		24.16	26.78	25.42	19.66
7/28/2007 0:21		24.16	26.68	25.32	18.9
7/28/2007 0:21		24.16	26.59	25.32	18.62
7/28/2007 0:21		24.16	26.88	25.42	18.33
7/28/2007 0:21		24.26	26.78	25.42	18.24
7/28/2007 0:22		24.16	26.68	25.42	17.95
7/28/2007 0:22		24.26	26.59	25.32	17.67
7/28/2007 0:22		24.26	26.68	25.32	17.19
7/28/2007 0:22		24.26	26.68	25.32	17.28
7/28/2007 0:23		24.26	26.88	25.32	17.28
7/28/2007 0:23		24.26	26.68	25.32	16.71
7/28/2007 0:23		24.26	26.49	25.22	16.52
7/28/2007 0:23		24.26	26.68	25.22	16.24
7/29/2007 0:00		24.26	26.39	25.22	16.62
7/29/2007 0:00		24.26	26.78	25.03	16.43
7/29/2007 0:00		24.26	26.49	24.93	15.95
7/29/2007 0:00		24.26	26.78	24.84	15.66
7/29/2007 0:01		24.26	26.59	24.64	15.57
7/29/2007 0:01		24.26	26.2	24.55	15.57
7/29/2007 0:01		24.26	26.68	24.45	15.76
7/29/2007 0:01		24.26	26.39	24.35	16.24
7/29/2007 0:02		24.26	26.78	24.26	15.95
7/29/2007 0:02		24.26	26.49	24.16	15.76
7/29/2007 0:02		24.26	26.78	23.97	15.66
7/29/2007 0:02		24.26	26.68	24.64	15
7/29/2007 0:03		24.26	26.29	24.84	14.9
7/29/2007 0:03		24.26	26.1	24.84	15.09
7/29/2007 0:03		24.26	25.81	24.93	14.04
7/29/2007 0:03		24.26	25.51	24.93	13.65
7/29/2007 0:04		24.26	26.39	24.93	13.37
7/29/2007 0:04		24.35	26	24.93	13.27
7/29/2007 0:04		24.26	26.49	24.84	13.56
7/29/2007 0:04		24.35	26.2	24.84	14.33
7/29/2007 0:05		24.35	26.39	24.84	14.42
7/29/2007 0:05		24.35	26.49	24.74	14.61
7/29/2007 0:05		24.35	26.29	24.45	14.61
7/29/2007 0:05		24.35	26.1	24.16	14.23
7/29/2007 0:06		24.35	26.1	23.87	13.17
7/29/2007 0:06		24.35	25.9	23.68	13.46
7/29/2007 0:06		24.35	26.49	23.48	14.8
7/29/2007 0:06		24.35	26.1	23.29	16.81
7/29/2007 0:07		24.35	25.81	23.1	18.71
7/29/2007 0:07		24.35	25.51	22.91	21.19
7/29/2007 0:07		24.35	26.2	24.26	24.45
7/29/2007 0:07		24.35	25.81	24.55	26.88
7/29/2007 0:08		24.35	26.29	24.64	30.15
7/29/2007 0:08		24.35	25.9	24.26	30.96
7/29/2007 0:08		24.35	25.42	24.55	31.78
7/29/2007 0:08		24.35	25.42	24.64	33.33
7/29/2007 0:09		23.48	25.51	24.74	33.12
7/29/2007 0:09		23.1	26	24.84	30.76
7/29/2007 0:09		23.1	26.29	24.84	26.39
7/29/2007 0:09		23.1	26.2	24.84	30.36
7/29/2007 0:10		22.81	26	24.93	31.68
7/29/2007 0:10		22.81	26.49	24.93	31.27
7/29/2007 0:10		22.81	26.2	24.93	32.7
7/29/2007 0:10		22.81	26.68	24.84	33.12
7/29/2007 0:11		22.81	26.49	24.64	33.22
7/29/2007 0:11		22.81	26.29	24.45	33.12
7/29/2007 0:11		22.81	26.59	24.35	33.85
7/29/2007 0:11		22.81	26.39	24.16	33.64
7/29/2007 0:12		22.81	26.78	24.16	33.74
7/29/2007 0:12		22.81	26.49	24.06	36.51
7/29/2007 0:12		22.91	26.78	24.93	33.12
7/29/2007 0:12		22.91	26.59	25.13	30.56
7/29/2007 0:13		22.91	26.88	25.22	34.06
7/29/2007 0:13		22.91	26.68	25.22	32.5
7/29/2007 0:13		22.91	26.88	25.32	30.86
7/29/2007 0:13		22.91	26.68	25.32	34.59
7/29/2007 0:14		22.91	26.78	25.32	29.05
7/29/2007 0:14		22.91	26.88	25.42	39.05

7/29/2007 0:14		22.91	26.68	25.42	33.95
7/29/2007 0:14		22.91	26.98	25.42	34.16
7/29/2007 0:15		22.91	26.88	25.42	34.37
7/29/2007 0:15		22.91	27.08	25.32	32.5
7/29/2007 0:15		22.91	26.88	25.32	29.55
7/29/2007 0:15		22.91	26.78	25.22	29.75
7/29/2007 0:16		22.91	27.08	25.13	27.37
7/29/2007 0:16		22.91	26.88	25.13	25.42
7/29/2007 0:16		22.91	27.08	25.03	23.39
7/29/2007 0:16		22.91	26.98	25.03	23
7/29/2007 0:17		22.91	26.88	25.42	23.97
7/29/2007 0:17		22.91	26.78	25.51	23.97
7/29/2007 0:17		23	26.49	25.51	24.55
7/29/2007 0:17		23	27.08	25.51	25.13
7/29/2007 0:18		23	26.68	25.42	27.08
7/29/2007 0:18		23	26.78	25.42	32.39
7/29/2007 0:18		23	26.49	25.42	30.76
7/29/2007 0:18		23	27.08	25.51	31.47
7/29/2007 0:19		23	26.68	25.51	30.66
7/29/2007 0:19		23	26.49	25.42	28.46
7/29/2007 0:19		23	26.88	25.32	25.32
7/29/2007 0:19		23	26.59	25.13	22.43
7/29/2007 0:20		23	26.98	25.03	20.81
7/29/2007 0:20		23	26.68	24.93	19.76
7/29/2007 0:20		23	27.08	24.84	18.81
7/29/2007 0:20		23	26.68	24.74	18.05
7/29/2007 0:21		23	26.88	24.74	17.95
7/29/2007 0:21		23	26.59	25.32	17.86
7/29/2007 0:21		23	26.98	25.51	17.76
7/29/2007 0:21		23.1	26.68	25.51	17.95
7/29/2007 0:22		23.1	26.88	25.51	17.76
7/29/2007 0:22		23.1	26.68	25.51	17.95
7/29/2007 0:22		23.1	26.68	25.51	18.43
7/29/2007 0:22		23.1	26.78	25.51	17.95
7/29/2007 0:23		23.1	26.49	25.51	17.95
7/29/2007 0:23		23.1	26.59	25.51	17.48
7/29/2007 0:23		23.1	26.59	25.42	17
7/29/2007 0:23		23.1	26.68	25.22	17
7/30/2007 0:00		23.1	26.78	25.03	16.62
7/30/2007 0:00		23.1	26.59	24.84	16.81
7/30/2007 0:00		23.1	26.68	24.74	16.33
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7/30/2007 0:02		23.1	26.39	25.42	15.19
7/30/2007 0:02		23.2	26.68	25.42	15.28
7/30/2007 0:02		23.2	26.39	25.42	15
7/30/2007 0:02		23.2	26.1	25.42	14.61
7/30/2007 0:03		23.2	26.49	25.42	14.23
7/30/2007 0:03		23.2	26	25.42	14.42
7/30/2007 0:03		23.2	26.59	25.32	14.04
7/30/2007 0:03		23.2	26.2	25.32	13.56
7/30/2007 0:04		23.2	26.49	25.13	13.17
7/30/2007 0:04		23.2	26.1	24.84	12.98
7/30/2007 0:04		23.2	26.49	24.64	13.46
7/30/2007 0:04		23.2	26.2	24.45	13.46
7/30/2007 0:05		23.2	26.29	24.26	13.17
7/30/2007 0:05		23.2	26.39	24.16	12.88
7/30/2007 0:05		23.2	26.29	23.97	12.69
7/30/2007 0:05		23.2	26.1	24.35	12.4
7/30/2007 0:06		23.2	26.2	25.03	12.21
7/30/2007 0:06		23.2	25.9	25.13	12.98
7/30/2007 0:06		23.2	25.32	25.13	15
7/30/2007 0:06		23.2	26.29	25.13	16.81
7/30/2007 0:07		23.2	25.71	25.13	18.9
7/30/2007 0:07		23.29	26.39	25.13	22.14
7/30/2007 0:07		23.29	25.81	25.13	24.74
7/30/2007 0:07		23.29	25.61	25.13	28.95
7/30/2007 0:08		23.29	26.2	25.13	31.88
7/30/2007 0:08		23.29	25.61	25.13	34.37
7/30/2007 0:08		23.29	26.29	25.03	36.19
7/30/2007 0:08		23.29	25.71	24.64	37.27
7/30/2007 0:09		23.29	26.29	24.45	34.9
7/30/2007 0:09		23.29	25.9	24.16	34.48
7/30/2007 0:09		23.29	26.39	23.97	29.35
7/30/2007 0:09		23.29	26	23.87	34.27
7/30/2007 0:10		23.29	26.2	23.68	35.33
7/30/2007 0:10		23.29	26.49	23.58	35.12
7/30/2007 0:10		25.51	26.2	23.58	35.54
7/30/2007 0:10		23.58	26.68	25.22	37.17
7/30/2007 0:11		23.58	26.88	25.9	36.51
7/30/2007 0:11		23.58	35.97	26.39	36.62
7/30/2007 0:11		23.58	41.58	26.68	36.51
7/30/2007 0:11		23.58	43.6		36.62
7/30/2007 0:12		23.48	27.67	28.36	37.6
7/30/2007 0:12		23.48	27.57	27.47	37.82
7/30/2007 0:12		23.48	27.47	27.08	36.84

7/30/2007 0:12		23.48	27.27	26.68	38.27
7/30/2007 0:13		23.48	27.08	26.49	36.95
7/30/2007 0:13		23.48	26.68	26.29	36.84
7/30/2007 0:13		23.58	26.78	26.2	38.38
7/30/2007 0:13		23.58	26.68	26.2	38.05
7/30/2007 0:14		23.58	26.49	26.2	39.5
7/30/2007 0:14		23.58	26.59	26.1	39.05
7/30/2007 0:14		23.58	26.78	26.1	32.09
7/30/2007 0:14		23.58	26.59	26.1	37.17
7/30/2007 0:15		23.58	26.39	26	38.49
7/30/2007 0:15		23.58	26.68	25.9	39.62
7/30/2007 0:15		23.58	26.78	25.9	34.37
7/30/2007 0:15		23.68	26.68	25.9	40.3
7/30/2007 0:16		23.68	26.78	25.9	33.54
7/30/2007 0:16		23.68	26.88	25.9	29.85
7/30/2007 0:16		23.68	26.68	25.9	27.47
7/30/2007 0:16		23.68	26.78	25.9	27.86
7/30/2007 0:17		23.68	26.88	25.9	25.81
7/30/2007 0:17		23.77	26.59	25.9	22.43
7/30/2007 0:17		23.77	26.1	25.81	22.24
7/30/2007 0:17		23.77	26.68	25.71	22.91
7/30/2007 0:18		23.77	26.49	25.71	24.35
7/30/2007 0:18		23.77	26	25.71	31.06
7/30/2007 0:18		23.77	26.39	25.71	27.27
7/30/2007 0:18		23.77	26.59	25.71	26.88
7/30/2007 0:19		23.87	26.1	25.71	26.39
7/30/2007 0:19		23.87	26.1	25.71	25.81
7/30/2007 0:19		23.87	26.49	25.71	25.32
7/30/2007 0:19		23.87	26.29	25.71	24.64
7/30/2007 0:20		23.87	26.49	25.71	23.39
7/30/2007 0:20		23.87	26.49	25.71	22.43
7/30/2007 0:20		23.87	26.2	25.71	21.95
7/30/2007 0:20		23.87	26.49	25.71	21.38
7/30/2007 0:21		23.97	26.39	25.71	21.28
7/30/2007 0:21		23.97	25.9	25.61	20.81
7/30/2007 0:21		23.97	25.81	25.51	20.04
7/30/2007 0:21		23.97	26.88	25.51	19.76
7/30/2007 0:22		23.97	26.78	25.42	19.09
7/30/2007 0:22		23.97	26.49	25.32	18.62
7/30/2007 0:22		23.97	26.68	25.22	19.28
7/30/2007 0:22		23.97	26.1	25.13	19.66
7/30/2007 0:23		23.97	26.49	25.03	18.71
7/30/2007 0:23		23.97	26	25.03	18.14
7/30/2007 0:23		23.97	25.51	25.22	18.05
7/30/2007 0:23		24.06	26.39	25.32	17.38
7/31/2007 0:00		24.06	26.2	25.32	16.52
7/31/2007 0:00		24.06	26.29	25.42	15.95
7/31/2007 0:00		24.06	25.9	25.42	15.76
7/31/2007 0:00		24.06	25.61	25.42	15.47
7/31/2007 0:01		24.06	26.29	25.42	15.09
7/31/2007 0:01		24.06	25.71	25.42	15
7/31/2007 0:01		24.06	25.61	25.42	15.19
7/31/2007 0:01		24.06	26.2	25.42	15.28
7/31/2007 0:02		24.06	26.1	25.42	15.57
7/31/2007 0:02		24.06	26.1	25.42	15.95
7/31/2007 0:02		24.06	25.9	25.42	14.8
7/31/2007 0:02		24.06	25.81	25.32	15.19
7/31/2007 0:03		24.06	25.32	25.32	14.9
7/31/2007 0:03		24.06	25.42	25.32	14.42
7/31/2007 0:03		24.06	26.1	25.32	14.04
7/31/2007 0:03		24.06	26	25.32	13.94
7/31/2007 0:04		24.06	26	25.32	13.65
7/31/2007 0:04		24.06	25.51	25.22	13.27
7/31/2007 0:04		24.06	26	25.22	13.46
7/31/2007 0:04		24.06	25.51	25.22	13.17
7/31/2007 0:05		24.06	26.2	25.22	13.37
7/31/2007 0:05		24.06	26.2	25.13	12.98
7/31/2007 0:05		24.06	26.1	25.13	12.88
7/31/2007 0:05		24.06	26.1	25.13	12.98
7/31/2007 0:06		24.06	25.51	25.13	13.17
7/31/2007 0:06		24.06	25.03	25.13	13.75
7/31/2007 0:06		24.06	25.81	25.03	15.86
7/31/2007 0:06		24.06	25.71	25.03	19.38
7/31/2007 0:07		24.06	25.71	25.03	23
7/31/2007 0:07		24.06	25.71	24.93	26.78
7/31/2007 0:07		24.06	25.61	24.93	30.05
7/31/2007 0:07		24.06	25.61	24.74	31.47
7/31/2007 0:08		24.06	25.42	24.55	32.81
7/31/2007 0:08		24.06	25.42	24.45	31.78
7/31/2007 0:08		24.06	25.42	24.26	33.01
7/31/2007 0:08		24.06	25.42	24.16	33.33
7/31/2007 0:09		24.06	25.71	24.06	35.54
7/31/2007 0:09		24.06	25.81	24.06	35.01
7/31/2007 0:09		24.06	25.81	24.26	30.56
7/31/2007 0:09		24.06	25.42	24.55	36.73
7/31/2007 0:10		24.06	24.93	24.74	35.22
7/31/2007 0:10		24.06	25.51	24.93	36.84
7/31/2007 0:10		24.06	26	25.03	37.06
7/31/2007 0:10		24.06	25.61	25.13	36.19

7/31/2007 0:11		24.06	25.22	25.13	36.62
7/31/2007 0:11		24.16	25.81	25.22	37.06
7/31/2007 0:11		24.16	26.1	25.22	37.38
7/31/2007 0:11		24.16	25.9	25.22	37.49
7/31/2007 0:12		24.16	26.1	25.22	37.71
7/31/2007 0:12		24.16	25.71	25.32	38.27
7/31/2007 0:12		24.16	25.61	25.22	37.17
7/31/2007 0:12		24.26	26.29	25.13	38.94
7/31/2007 0:13		24.26	26.2	24.93	39.62
7/31/2007 0:13		24.26	25.9	24.93	39.5
7/31/2007 0:13		24.26	26.29	24.93	41.23
7/31/2007 0:13		24.35	26.39	24.84	41.11
7/31/2007 0:14		24.35	26.39	24.84	39.62
7/31/2007 0:14		24.35	26.1	24.93	40.99
7/31/2007 0:14		24.45	26	25.22	40.07
7/31/2007 0:14		24.45	26.49	25.32	39.84
7/31/2007 0:15		24.45	26.39	25.42	39.39
7/31/2007 0:15		24.45	26.2	25.51	39.84
7/31/2007 0:15		24.55	26.59	25.51	34.9
7/31/2007 0:15		24.55	26.49	25.61	34.48
7/31/2007 0:16		24.55	26.68	25.61	39.84
7/31/2007 0:16		24.64	26.78	25.61	41.34
7/31/2007 0:16		24.64	26.59	25.71	40.76
7/31/2007 0:16		24.64	26.39	25.71	41.58
7/31/2007 0:17		24.74	26.88	25.71	41.58
7/31/2007 0:17		24.74	26.78	25.71	39.5
7/31/2007 0:17		24.74	26.49	25.71	38.38
7/31/2007 0:17		24.74	26.78	25.61	38.05
7/31/2007 0:18		24.84	26.88	25.61	36.73
7/31/2007 0:18		24.84	26.78	25.71	35.76
7/31/2007 0:18		24.84	26.59	25.81	31.68
7/31/2007 0:18		24.84	26.98	25.81	33.43
7/31/2007 0:19		24.84	26.88	25.9	30.86
7/31/2007 0:19		24.93	26.98	25.9	30.05
7/31/2007 0:19		24.93	26.98	25.9	28.16
7/31/2007 0:19		24.93	27.08	26	26
7/31/2007 0:20		24.93	27.08	26	24.55
7/31/2007 0:20		24.93	26.88	26	22.62
7/31/2007 0:20		24.93	27.27	26	21.86
7/31/2007 0:20		24.93	27.27	26.1	21.38
7/31/2007 0:21		24.93	27.17	26.1	21.09
7/31/2007 0:21		24.93	27.17	26	21.19
7/31/2007 0:21		24.93	27.08	26.1	20.62
7/31/2007 0:21		24.93	26.98	26	20.33
7/31/2007 0:22		24.93	26.78	26	20.33
7/31/2007 0:22		24.93	27.08	26	20.42
7/31/2007 0:22		24.93	26.88	25.9	20.04
7/31/2007 0:22		24.93	26.68	26	19.85
7/31/2007 0:23		24.93	26.88	26	19.95
7/31/2007 0:23		24.93	26.98	26	19.66
7/31/2007 0:23		24.93	26.78	26	19.76
7/31/2007 0:23		24.93	26.59	26	19.38
8/1/2007 0:00		24.93	26.78	26	18.62
8/1/2007 0:00		24.93	27.08	26	19.09
8/1/2007 0:00		24.93	27.08	25.9	19.57
8/1/2007 0:00		24.93	26.98	25.9	19.19
8/1/2007 0:01		24.93	26.98	25.9	18.81
8/1/2007 0:01		24.93	26.78	25.9	18.05
8/1/2007 0:01		24.93	26.59	25.81	18.71
8/1/2007 0:01		24.93	26.68	25.81	18.71
8/1/2007 0:02		24.93	26.68	25.71	17.86
8/1/2007 0:02		24.93	26.39	25.71	18.43
8/1/2007 0:02		24.93	26.29	25.61	18.43
8/1/2007 0:02		24.93	26.68	25.61	17.86
8/1/2007 0:03		24.93	26.49	25.51	17.67
8/1/2007 0:03		24.93	26.49	25.61	17.19
8/1/2007 0:03		24.93	26.1	25.71	17
8/1/2007 0:03		24.93	25.9	25.81	16.81
8/1/2007 0:04		24.84	26.59	25.81	16.71
8/1/2007 0:04		24.84	26.59	25.9	16.52
8/1/2007 0:04		24.84	26.1	25.9	16.05
8/1/2007 0:04		24.84	25.81	25.9	15.38
8/1/2007 0:05		24.84	26.49	25.81	14.71
8/1/2007 0:05		24.84	26.49	25.81	14.13
8/1/2007 0:05		24.84	26.2	25.81	13.94
8/1/2007 0:05		24.84	25.9	25.81	13.65
8/1/2007 0:06		24.74	26.49	25.81	13.75
8/1/2007 0:06		24.74	26.39	25.71	14.13
8/1/2007 0:06		24.74	26	25.61	15.66
8/1/2007 0:06		24.74	26.49	25.51	19.28
8/1/2007 0:07		24.74	26.68	25.32	23.2
8/1/2007 0:07		24.74	26.59	25.22	27.37
8/1/2007 0:07		24.74	26.68	25.22	29.55
8/1/2007 0:07		24.74	26.49	25.13	31.78
8/1/2007 0:08		24.74	26.1	25.03	34.9
8/1/2007 0:08		24.74	25.81	25.03	36.4
8/1/2007 0:08		24.74	26.49	24.93	36.19
8/1/2007 0:08		24.84	26.29	24.93	38.6
8/1/2007 0:09		24.84	26.49	25.22	40.19

8/1/2007 0:09		24.84	26	25.42	37.38
8/1/2007 0:09		24.84	25.71	25.61	32.39
8/1/2007 0:09		24.84	26.39	25.71	38.94
8/1/2007 0:10		24.84	26.49	25.71	39.62
8/1/2007 0:10		24.84	26.2	25.81	39.28
8/1/2007 0:10		24.84	26	25.81	39.5
8/1/2007 0:10		24.84	26.59	25.9	38.94
8/1/2007 0:11		24.84	26.59	25.81	39.96
8/1/2007 0:11		24.93	26.29	25.81	38.94
8/1/2007 0:11		24.93	26.2	25.81	37.82
8/1/2007 0:11		24.93	26.78	25.81	37.38
8/1/2007 0:12		24.93	26.68	25.81	37.38
8/1/2007 0:12		24.93	26.59	25.71	37.82
8/1/2007 0:12		25.03	26.78	25.71	38.16
8/1/2007 0:12		25.03	26.88	25.61	37.94
8/1/2007 0:13		25.13	26.98	25.61	38.27
8/1/2007 0:13		25.13	26.98	25.51	38.05
8/1/2007 0:13		25.13	26.88	25.51	39.28
8/1/2007 0:13		25.22	26.88	25.71	39.39
8/1/2007 0:14		25.22	26.98	25.9	40.3
8/1/2007 0:14		25.22	26.98	26	37.71
8/1/2007 0:14		25.32	27.08	26	40.76
8/1/2007 0:14		25.32	26.98	26.1	40.53
8/1/2007 0:15		25.32	26.98	26.1	39.28
8/1/2007 0:15		25.42	27.17	26.1	41.46
8/1/2007 0:15		25.42	27.17	26.1	38.27
8/1/2007 0:15		25.42	27.27	26.1	32.7
8/1/2007 0:16		25.42	27.17	26.1	39.16
8/1/2007 0:16		25.42	27.08	26	43.48
8/1/2007 0:16		25.42	27.37	26	40.99
8/1/2007 0:16		25.51	27.37	26	40.42
8/1/2007 0:17		25.51	27.27	26	40.42
8/1/2007 0:17		25.51	27.47	26.1	40.53
8/1/2007 0:17		25.51	27.57	26.1	40.88
8/1/2007 0:17		25.51	27.57	26.2	34.69
8/1/2007 0:18		25.61	27.47	26.29	25.81
8/1/2007 0:18		25.61	27.47	26.29	26.59
8/1/2007 0:18		25.61	27.37	26.29	25.81
8/1/2007 0:18		25.61	27.27	26.29	26
8/1/2007 0:19		25.61	27.47	26.29	23.68
8/1/2007 0:19		25.61	27.47	26.29	21.86
8/1/2007 0:19		25.61	27.27	26.29	21.38
8/1/2007 0:19		25.61	27.57	26.2	21
8/1/2007 0:20		25.61	27.57	26.2	20.71
8/1/2007 0:20		25.61	27.57	26.2	20.62
8/1/2007 0:20		25.51	27.47	26.1	20.33
8/1/2007 0:20		25.51	27.37	26.1	20.23
8/1/2007 0:21		25.51	27.37	26.1	20.14
8/1/2007 0:21		25.51	27.57	26.29	20.14
8/1/2007 0:21		25.51	27.57	26.39	19.38
8/1/2007 0:21		25.42	27.67	26.49	17.95
8/1/2007 0:22		25.42	27.57	26.49	17.38
8/1/2007 0:22		25.42	27.47	26.49	17.09
8/1/2007 0:22		25.42	27.27	26.39	16.62
8/1/2007 0:22		25.42	27.27	26.39	16.43
8/1/2007 0:23		25.42	27.47	26.39	16.52
8/1/2007 0:23		25.42	27.17	26.39	16.52
8/1/2007 0:23		25.32	26.88	26.39	16.33
8/1/2007 0:23		25.32	27.17	26.29	16.43
8/2/2007 0:00		25.32	27.27	26.29	16.81
8/2/2007 0:00		25.32	27.08	26.2	17.28
8/2/2007 0:00		25.32	26.98	26	17.57
8/2/2007 0:00		25.32	26.68	25.9	17.67
8/2/2007 0:01		25.32	26.29	25.81	17.67
8/2/2007 0:01		25.32	27.08	25.71	18.05
8/2/2007 0:01		25.32	27.08	25.61	18.52
8/2/2007 0:01		25.32	26.68	25.51	19
8/2/2007 0:02		25.32	26.39	25.51	19.38
8/2/2007 0:02		25.32	26.98	25.42	19.57
8/2/2007 0:02		25.32	27.17	25.51	19.85
8/2/2007 0:02		25.32	27.08	25.81	19.95
8/2/2007 0:03		25.22	27.08	25.9	19.57
8/2/2007 0:03		25.32	26.98	25.9	19.19
8/2/2007 0:03		25.22	26.49	26	17.86
8/2/2007 0:03		25.22	26.59	26	16.81
8/2/2007 0:04		25.22	26.78	26.1	16.05
8/2/2007 0:04		25.22	26.39	26.1	15.86
8/2/2007 0:04		25.22	26	26.2	16.05
8/2/2007 0:04		25.22	26.88	26.2	15.57
8/2/2007 0:05		25.22	26.59	26.2	15.28
8/2/2007 0:05		25.22	26.59	26.1	14.8
8/2/2007 0:05		25.22	26.68	26.1	14.52
8/2/2007 0:05		25.22	26.29	25.9	14.33
8/2/2007 0:06		25.22	26.29	25.81	13.94
8/2/2007 0:06		25.22	26.68	25.61	14.61
8/2/2007 0:06		25.22	26.29	25.51	16.14
8/2/2007 0:06		25.22	26.68	25.42	19.57
8/2/2007 0:07		25.22	26.39	25.32	22.14
8/2/2007 0:07		25.22	26	25.22	24.74

8/2/2007 0:07		25.22	26.39	25.13	26.68
8/2/2007 0:07		25.22	26.88	25.13	29.35
8/2/2007 0:08		25.22	26.78	25.42	31.06
8/2/2007 0:08		25.22	26.68	25.61	32.81
8/2/2007 0:08		25.22	26.88	25.81	33.64
8/2/2007 0:08		25.22	26.59	25.9	34.9
8/2/2007 0:09		25.22	26.59	25.9	34.06
8/2/2007 0:09		25.22	26.2	25.9	32.19
8/2/2007 0:09		25.22	26.29	25.9	29.45
8/2/2007 0:09		25.22	26.78	25.9	36.19
8/2/2007 0:10		25.22	26.49	26	32.5
8/2/2007 0:10		25.32	26.1	26	29.35
8/2/2007 0:10		25.42	26.88	25.9	30.86
8/2/2007 0:10		25.32	26.88	25.81	37.94
8/2/2007 0:11		25.51	26.78	26.1	30.46
8/2/2007 0:11		25.61	28.36	27.37	35.54
8/2/2007 0:11		25.42	27.08	41.81	38.27
8/2/2007 0:11		25.42	27.47	41.81	38.27
8/2/2007 0:12		25.32	27.57	39.05	34.06
8/2/2007 0:12		25.22	27.86	39.5	34.16
8/2/2007 0:12		24.64	28.46	38.94	33.54
8/2/2007 0:12		24.74	27.86	42.4	34.16
8/2/2007 0:13		24.74	28.16	44.33	34.59
8/2/2007 0:13		24.74	28.85	43.48	37.71
8/2/2007 0:13		24.84	29.05	29.55	38.16
8/2/2007 0:13		24.84	29.05	29.15	41.69
8/2/2007 0:14		24.93	28.46	29.05	35.22
8/2/2007 0:14		24.93	27.76	28.66	40.99
8/2/2007 0:14		24.93	27.76	27.96	38.16
8/2/2007 0:14		24.93	27.86	27.67	35.12
8/2/2007 0:15		24.93	27.76	27.57	31.98
8/2/2007 0:15		24.93	27.67	27.57	35.33
8/2/2007 0:15		25.03	27.67	27.57	35.44
8/2/2007 0:15		25.03	27.67	27.57	29.35
8/2/2007 0:16		25.03	27.67	27.47	29.05
8/2/2007 0:16		25.03	27.67	27.27	28.95
8/2/2007 0:16		25.03	27.67	27.08	29.65
8/2/2007 0:16		25.03	27.67	27.08	30.46
8/2/2007 0:17		25.03	27.67	26.98	28.06
8/2/2007 0:17		25.13	27.67	27.08	28.56
8/2/2007 0:17		25.13	27.67	27.08	27.17
8/2/2007 0:17		25.13	27.67	27.08	27.37
8/2/2007 0:18		25.13	27.67	27.08	26.68
8/2/2007 0:18		25.13	27.67	27.08	26.29
8/2/2007 0:18		25.13	27.76	26.98	29.45
8/2/2007 0:18		25.13	27.76	26.98	28.56
8/2/2007 0:19		25.13	27.76	26.98	27.17
8/2/2007 0:19		25.13	27.76	26.98	25.71
8/2/2007 0:19		25.13	27.67	26.98	24.93
8/2/2007 0:19		25.13	27.67	26.98	23.87
8/2/2007 0:20		25.13	27.86	26.98	21.95
8/2/2007 0:20		25.13	27.76	27.08	20.62
8/2/2007 0:20		25.22	27.86	27.08	20.52
8/2/2007 0:20		25.22	27.86	27.08	20.42
8/2/2007 0:21		25.22	27.86	27.08	20.23
8/2/2007 0:21		25.22	27.86	27.08	19.85
8/2/2007 0:21		25.22	27.86	27.08	19.57
8/2/2007 0:21		25.22	27.86	26.98	19.09
8/2/2007 0:22		25.22	27.96	26.88	18.71
8/2/2007 0:22		25.22	27.86	26.88	18.24
8/2/2007 0:22		25.22	27.86	26.88	16.71
8/2/2007 0:22		25.22	27.86	26.88	16.62
8/2/2007 0:23		25.22	27.76	26.88	16.71
8/2/2007 0:23		25.22	27.67	26.88	16.81
8/2/2007 0:23		25.32	27.86	26.88	16.9
8/2/2007 0:23		25.32	27.76	26.78	17
8/3/2007 0:00		25.32	27.76	26.78	17
8/3/2007 0:00		25.32	27.86	26.78	17
8/3/2007 0:00		25.32	27.76	26.78	16.9
8/3/2007 0:00		25.32	28.06	26.78	16.9
8/3/2007 0:01		25.32	27.96	26.78	16.9
8/3/2007 0:01		25.32	27.86	26.68	16.62
8/3/2007 0:01		25.32	27.67	26.68	16.62
8/3/2007 0:01		25.32	27.57	26.68	16.9
8/3/2007 0:02		25.32	27.96	26.68	16.9
8/3/2007 0:02		25.32	27.76	26.68	16.81
8/3/2007 0:02		25.32	27.67	26.68	16.9
8/3/2007 0:02		25.32	27.76	26.68	16.71
8/3/2007 0:03		25.32	27.86	26.59	16.9
8/3/2007 0:03		25.32	27.76	26.59	16.9
8/3/2007 0:03		25.32	27.67	26.59	16.81
8/3/2007 0:03		25.32	27.96	26.59	16.81
8/3/2007 0:03		25.32	27.96	26.59	16.81
8/3/2007 0:04		25.32	27.76	26.49	16.81
8/3/2007 0:04		25.32	27.57	26.49	16.71
8/3/2007 0:04		25.32	27.96	26.59	16.81
8/3/2007 0:04		25.32	27.76	26.59	16.9
8/3/2007 0:05		25.32	27.67	26.49	16.81
8/3/2007 0:05		25.32	27.57	26.49	16.62

8/3/2007 0:05		25.32	27.37	26.49	17
8/3/2007 0:06		25.32	27.86	26.49	17.09
8/3/2007 0:06		25.32	27.67	26.49	17
8/3/2007 0:06		25.32	27.47	26.49	17.38
8/3/2007 0:06		25.32	27.57	26.39	18.24
8/3/2007 0:07		25.32	27.86	26.39	19.47
8/3/2007 0:07		25.32	27.76	26.29	19.19
8/3/2007 0:07		25.32	27.76	26.29	19.95
8/3/2007 0:07		25.32	27.67	26.2	28.36
8/3/2007 0:08		25.32	27.67	26.39	22.33
8/3/2007 0:08		25.32	27.67	26.39	28.46
8/3/2007 0:08		25.32	27.67	26.39	33.85
8/3/2007 0:08		25.32	27.76	26.39	35.97
8/3/2007 0:09		25.32	27.67	26.29	31.27
8/3/2007 0:09		25.32	27.47	26.29	28.85
8/3/2007 0:09		25.32	27.86	26.29	30.36
8/3/2007 0:09		25.32	27.57	26.2	35.65
8/3/2007 0:10		25.32	27.37	26.2	37.6
8/3/2007 0:10		25.32	27.67	26.39	38.49
8/3/2007 0:10		25.32	27.86	26.49	36.84
8/3/2007 0:10		25.32	27.47	26.49	36.4
8/3/2007 0:11		25.32	27.76	26.49	37.06
8/3/2007 0:11		25.32	27.76	26.49	41.23
8/3/2007 0:11		25.32	27.57	26.49	39.73
8/3/2007 0:11		25.32	27.37	26.49	32.81
8/3/2007 0:12		25.32	27.86	26.49	29.75
8/3/2007 0:12		25.32	28.06	26.49	30.76
8/3/2007 0:12		25.32	27.96	26.49	31.98
8/3/2007 0:12		25.42	27.86	26.49	32.7
8/3/2007 0:13		25.42	27.67	26.49	33.12
8/3/2007 0:13		25.42	28.06	26.59	35.01
8/3/2007 0:13		25.42	28.06	26.59	34.69
8/3/2007 0:13		25.42	27.76	26.59	37.49
8/3/2007 0:14		25.42	28.06	26.59	40.07
8/3/2007 0:14		25.42	27.96	26.59	32.91
8/3/2007 0:14		25.42	27.76	26.59	39.96
8/3/2007 0:14		25.42	28.06	26.59	31.37
8/3/2007 0:15		25.42	27.96	26.59	32.09
8/3/2007 0:15		25.42	27.76	26.68	36.84
8/3/2007 0:15		25.42	27.86	26.68	43.72
8/3/2007 0:15		25.42	28.16	26.68	33.01
8/3/2007 0:16		25.42	28.06	26.68	32.39
8/3/2007 0:16		25.42	27.86	26.68	29.75
8/3/2007 0:16		25.42	27.96	26.68	28.66
8/3/2007 0:16		25.42	28.26	26.68	21.86
8/3/2007 0:17		25.51	28.16	26.68	22.05
8/3/2007 0:17		25.51	27.96	26.68	23
8/3/2007 0:17		25.51	28.06	26.68	23.2
8/3/2007 0:17		25.51	28.26	26.68	23
8/3/2007 0:18		25.51	28.06	26.68	23.1
8/3/2007 0:18		25.51	27.76	26.68	23.2
8/3/2007 0:18		25.51	28.36	26.68	23
8/3/2007 0:18		25.51	28.36	26.68	21.66
8/3/2007 0:19		25.51	28.26	26.59	18.24
8/3/2007 0:19		25.51	28.36	26.59	19.09
8/3/2007 0:19		25.51	28.26	26.59	20.42
8/3/2007 0:19		25.51	28.26	26.49	19.76
8/3/2007 0:20		25.51	28.16	26.49	19.09
8/3/2007 0:20		25.51	27.86	26.39	19.09
8/3/2007 0:20		25.51	28.36	26.59	19.38
8/3/2007 0:20		25.51	28.16	26.68	19.28
8/3/2007 0:21		25.51	27.76	26.68	18.62
8/3/2007 0:21		25.51	28.26	26.68	18.52
8/3/2007 0:21		25.51	28.06	26.68	18.33
8/3/2007 0:21		25.51	27.67	26.88	18.81
8/3/2007 0:22		25.51	27.47	26.78	19.09
8/3/2007 0:22		25.51	28.26	26.88	19.28
8/3/2007 0:22		25.51	28.06	26.78	19.28
8/3/2007 0:22		25.61	27.76	26.78	19.76
8/3/2007 0:23		25.61	27.37	26.78	19.95
8/3/2007 0:23		25.61	27.86	26.68	18.52
8/3/2007 0:23		25.61	28.26	26.59	17.95
8/3/2007 0:23		25.61	28.06	26.59	18.71
8/4/2007 0:00		25.61	28.26	26.78	18.62
8/4/2007 0:00		25.61	28.06	26.78	18.52
8/4/2007 0:00		25.61	28.06	26.88	18.14
8/4/2007 0:00		25.61	27.67	26.88	17.57
8/4/2007 0:01		25.61	27.57	26.88	17.76
8/4/2007 0:01		25.61	27.17	26.78	18.33
8/4/2007 0:01		25.61	27.86	26.78	18.71
8/4/2007 0:01		25.61	27.86	26.68	18.33
8/4/2007 0:02		25.61	27.96	26.68	18.62
8/4/2007 0:02		25.61	27.57	26.68	17.95
8/4/2007 0:02		25.61	28.16	26.59	17.86
8/4/2007 0:02		25.61	27.67	26.59	18.24
8/4/2007 0:03		25.61	27.27	26.49	17.38
8/4/2007 0:03		25.61	26.88	26.49	16.9
8/4/2007 0:03		25.51	27.76	26.49	16.43
8/4/2007 0:03		25.61	27.17	26.49	16.24

8/4/2007 0:04		25.61	27.37	26.49	16.43
8/4/2007 0:04		25.61	27.57	26.49	16.14
8/4/2007 0:04		25.61	28.06	26.39	16.24
8/4/2007 0:04		25.61	27.96	26.39	16.62
8/4/2007 0:05		25.51	27.86	26.29	16.52
8/4/2007 0:05		25.61	28.06	26.29	16.62
8/4/2007 0:05		25.51	27.67	26.2	15.76
8/4/2007 0:05		25.61	27.17	26.1	15.66
8/4/2007 0:06		25.51	26.78	26.49	15.57
8/4/2007 0:06		25.51	27.96	26.68	15.76
8/4/2007 0:06		25.51	27.67	26.68	18.52
8/4/2007 0:06		25.51	27.17	26.68	23.48
8/4/2007 0:07		25.51	27.27	26.68	27.86
8/4/2007 0:07		25.51	27.76	26.68	31.37
8/4/2007 0:07		25.51	27.47	26.68	25.9
8/4/2007 0:07		25.51	27.47	26.68	36.95
8/4/2007 0:08		25.51	26.98	26.59	39.05
8/4/2007 0:08		25.51	26.68	26.59	27.96
8/4/2007 0:08		25.61	27.67	26.59	26.29
8/4/2007 0:08		25.51	27.57	26.39	29.25
8/4/2007 0:09		25.61	27.86	26.1	32.5
8/4/2007 0:09		25.61	27.67	26	32.09
8/4/2007 0:09		25.61	27.67	25.81	36.73
8/4/2007 0:09		25.61	27.67	25.71	42.4
8/4/2007 0:10		25.61	27.86	25.71	40.3
8/4/2007 0:10		25.61	27.76	25.61	31.88
8/4/2007 0:10		25.61	27.57	25.71	33.54
8/4/2007 0:10		25.61	27.27	26.49	39.84
8/4/2007 0:11		25.61	27.67	26.68	39.62
8/4/2007 0:11		25.61	27.47	26.78	32.6
8/4/2007 0:11		25.71	27.67	26.88	39.39
8/4/2007 0:11		25.71	27.17	26.78	39.62
8/4/2007 0:12		25.71	27.47	26.78	33.85
8/4/2007 0:12		25.71	27.37	26.88	37.17
8/4/2007 0:12		25.71	27.47	26.68	38.71
8/4/2007 0:12		25.71	27.96	26.59	32.39
8/4/2007 0:13		25.71	27.86	26.49	31.98
8/4/2007 0:13		25.71	28.06	26.39	40.42
8/4/2007 0:13		25.71	28.06	26.2	40.99
8/4/2007 0:13		25.71	27.86	26.39	33.12
8/4/2007 0:14		25.81	27.57	26.78	37.82
8/4/2007 0:14		25.81	27.86	26.88	43.12
8/4/2007 0:14		25.81	27.86	26.98	32.6
8/4/2007 0:14		25.81	27.76	26.98	30.56
8/4/2007 0:15		25.81	27.57	26.98	35.01
8/4/2007 0:15		25.81	28.16	26.98	39.39
8/4/2007 0:15		25.81	28.16	26.98	39.84
8/4/2007 0:15		25.9	27.96	26.98	33.64
8/4/2007 0:16		25.81	27.96	26.88	31.47
8/4/2007 0:16		25.9	27.67	26.68	31.17
8/4/2007 0:16		25.9	28.06	26.59	39.28
8/4/2007 0:16		25.9	28.16	26.49	30.46
8/4/2007 0:17		25.9	27.96	26.39	28.85
8/4/2007 0:17		25.9	27.76	26.29	29.15
8/4/2007 0:17		25.9	27.96	26.29	28.26
8/4/2007 0:17		25.9	27.57	26.68	27.17
8/4/2007 0:18		25.9	28.16	26.88	25.51
8/4/2007 0:18		25.9	28.26	26.98	18.9
8/4/2007 0:18		25.9	28.26	26.98	17.67
8/4/2007 0:18		26	28.26	26.98	17.48
8/4/2007 0:19		26	27.86	26.98	17.57
8/4/2007 0:19		25.9	27.86	26.88	17.28
8/4/2007 0:19		25.9	28.26	26.68	17.48
8/4/2007 0:19		25.9	27.86	26.59	17.28
8/4/2007 0:20		25.9	27.57	26.39	17.28
8/4/2007 0:20		25.9	28.16	26.29	17.38
8/4/2007 0:20		25.9	28.06	26.1	17.19
8/4/2007 0:20		25.9	27.76	26	17
8/4/2007 0:21		25.9	28.06	25.81	17.09
8/4/2007 0:21		25.9	27.76	26.1	17
8/4/2007 0:21		25.9	28.06	26.59	16.9
8/4/2007 0:21		25.9	27.57	26.68	17.28
8/4/2007 0:22		25.9	27.17	26.68	17.76
8/4/2007 0:22		25.9	28.06	26.78	18.24
8/4/2007 0:22		25.9	27.76	26.68	18.33
8/4/2007 0:22		25.9	27.17	26.68	18.52
8/4/2007 0:23		25.81	27.96	26.68	18.81
8/4/2007 0:23		25.81	27.67	26.59	19.19
8/4/2007 0:23		25.81	27.08	26.39	18.52
8/4/2007 0:23		25.81	27.27	26.1	18.71
8/5/2007 0:00		25.81	27.27	25.81	18.81
8/5/2007 0:00		25.81	27.67	25.61	19.28
8/5/2007 0:00		25.81	27.86	25.32	20.14
8/5/2007 0:00		25.81	27.27	25.22	21.28
8/5/2007 0:01		25.81	27.27	24.93	21
8/5/2007 0:01		25.81	26.88	25.61	20.04
8/5/2007 0:01		25.81	26.98	26.2	19.09
8/5/2007 0:01		25.81	27.67	26.39	19.47
8/5/2007 0:02		25.81	27.57	26.49	17.19

8/5/2007 0:02		25.81	26.88	26.49	16.52
8/5/2007 0:02		25.81	27.37	26.49	15.86
8/5/2007 0:02		25.81	26.88	26.49	16.24
8/5/2007 0:03		25.81	26.29	26.49	16.33
8/5/2007 0:03		25.81	27.47	26.29	15.76
8/5/2007 0:03		25.81	26.78	26	16.52
8/5/2007 0:03		25.81	26.78	25.71	17.95
8/5/2007 0:04		25.81	26.2	25.42	17.95
8/5/2007 0:04		25.81	26.78	25.13	17
8/5/2007 0:04		25.81	27.08	24.93	17.95
8/5/2007 0:04		25.81	26.2	24.74	18.14
8/5/2007 0:05		25.81	27.27	24.55	17.95
8/5/2007 0:05		25.81	26.59	25.71	16.9
8/5/2007 0:05		25.71	26	26.1	16.9
8/5/2007 0:05		25.81	26.49	26.2	17.57
8/5/2007 0:06		25.71	27.17	26.29	17.19
8/5/2007 0:06		25.71	27.57	26.29	18.24
8/5/2007 0:06		25.71	26.78	26.29	18.14
8/5/2007 0:06		25.71	26	26.29	18.24
8/5/2007 0:07		25.71	26.68	26.2	21.28
8/5/2007 0:07		25.71	25.9	25.9	24.93
8/5/2007 0:07		25.71	26.49	25.51	24.26
8/5/2007 0:07		25.71	27.27	25.22	26.49
8/5/2007 0:08		25.71	26.1	24.93	31.88
8/5/2007 0:08		25.71	25.42	24.64	32.5
8/5/2007 0:08		25.71	26.49	24.45	31.57
8/5/2007 0:08		25.71	27.17	24.26	30.96
8/5/2007 0:09		25.71	26.29	25.22	34.59
8/5/2007 0:09		25.71	25.71	25.9	30.26
8/5/2007 0:09		25.71	27.08	26.2	31.37
8/5/2007 0:09		25.81	26.98	26.29	35.76
8/5/2007 0:10		25.81	26.1	26.39	37.27
8/5/2007 0:10		25.81	26.78	26.49	39.84
8/5/2007 0:10		25.81	26	26.49	38.83
8/5/2007 0:10		25.9	27.17	26.49	39.05
8/5/2007 0:11		25.9	26.59	26.49	39.28
8/5/2007 0:11		25.9	25.81	26.49	38.6
8/5/2007 0:11		25.9	26.68	26.49	36.95
8/5/2007 0:11		25.9	27.57	26.49	35.33
8/5/2007 0:12		25.9	27.27	26.2	37.82
8/5/2007 0:12		26	26.68	26	38.27
8/5/2007 0:12		26	26.39	25.81	38.83
8/5/2007 0:12		26	27.37	25.61	35.01
8/5/2007 0:13		26	27.17	25.51	37.06
8/5/2007 0:13		26	27.08	25.42	38.16
8/5/2007 0:13		26	27.27	25.32	40.88
8/5/2007 0:13		26.1	26.68	25.22	35.86
8/5/2007 0:14		26.1	26.98	26.1	39.16
8/5/2007 0:14		26.1	27.57	26.49	37.38
8/5/2007 0:14		26.1	26.98	26.59	37.71
8/5/2007 0:14		26.1	26.68	26.59	44.58
8/5/2007 0:15		26.1	27.57	26.68	37.71
8/5/2007 0:15		26.2	27.57	26.68	35.01
8/5/2007 0:15		26.2	26.98	26.59	34.48
8/5/2007 0:15		26.2	27.17	26.49	35.22
8/5/2007 0:16		26.2	26.68	26.39	34.8
8/5/2007 0:16		26.2	27.37	26.2	33.01
8/5/2007 0:16		26.2	27.57	26.1	34.06
8/5/2007 0:16		26.2	26.98	26	32.5
8/5/2007 0:17		26.29	27.76	25.9	32.6
8/5/2007 0:17		26.29	27.67	26.29	31.17
8/5/2007 0:17		26.29	27.08	26.68	30.96
8/5/2007 0:17		26.29	27.37	26.78	29.75
8/5/2007 0:18		26.29	26.98	26.78	26.88
8/5/2007 0:18		26.2	27.76	26.78	25.81
8/5/2007 0:18		26.2	27.47	26.78	24.45
8/5/2007 0:18		26.2	27.47	26.68	23.29
8/5/2007 0:19		26.2	27.76	26.68	21.86
8/5/2007 0:19		26.2	27.37	26.59	21.47
8/5/2007 0:19		26.2	27.47	26.49	20.71
8/5/2007 0:19		26.2	27.76	26.39	19.57
8/5/2007 0:20		26.2	27.86	26.29	19.66
8/5/2007 0:20		26.2	27.86	26.2	19.57
8/5/2007 0:20		26.2	27.37	26.1	19.09
8/5/2007 0:20		26.2	26.98	26	19.76
8/5/2007 0:21		26.2	27.17	25.9	19.66
8/5/2007 0:21		26.2	27.47	25.9	19.19
8/5/2007 0:21		26.2	27.86	26.49	19.47
8/5/2007 0:21		26.2	27.37	26.68	19.38
8/5/2007 0:22		26.2	27.76	26.78	18.71
8/5/2007 0:22		26.2	27.76	26.78	19.28
8/5/2007 0:22		26.2	27.37	26.78	19.57
8/5/2007 0:22		26.2	27.86	26.78	18.52
8/5/2007 0:23		26.2	27.37	26.68	17.95
8/5/2007 0:23		26.2	27.96	26.68	17.67
8/5/2007 0:23		26.2	27.17	26.49	17.67
8/5/2007 0:23		26.2	27.27	26.29	17.57
8/6/2007 0:00		26.2	27.08	26.2	17.57
8/6/2007 0:00		26.2	27.86	26.1	17.57

8/6/2007 0:00		26.29	27.17	26	17.57
8/6/2007 0:00		26.29	27.86	25.9	17.38
8/6/2007 0:01		26.2	27.37	25.81	17.38
8/6/2007 0:01		26.2	26.98	26	17.38
8/6/2007 0:01		26.2	27.96	26.59	17.28
8/6/2007 0:01		26.2	27.47	26.68	17.19
8/6/2007 0:02		26.2	26.98	26.78	17
8/6/2007 0:02		26.2	27.57	26.78	17
8/6/2007 0:02		26.2	27.76	26.78	17
8/6/2007 0:02		26.2	27.96	26.78	17.09
8/6/2007 0:03		26.2	27.86	26.78	16.81
8/6/2007 0:03		26.2	27.67	26.68	16.71
8/6/2007 0:03		26.2	27.08	26.59	16.9
8/6/2007 0:03		26.2	26.88	26.39	17
8/6/2007 0:04		26.2	26.49	26.29	17
8/6/2007 0:04		26.29	26.98	26.1	16.43
8/6/2007 0:04		26.2	26.59	26	16.05
8/6/2007 0:04		26.29	26.39	25.9	16.33
8/6/2007 0:05		26.2	27.76	25.81	16.33
8/6/2007 0:05		26.2	27.47	25.71	16.24
8/6/2007 0:05		26.2	26.88	26.29	16.24
8/6/2007 0:05		26.2	27.27	26.59	16.24
8/6/2007 0:06		26.2	27.76	26.68	16.52
8/6/2007 0:06		26.2	27.37	26.78	16.71
8/6/2007 0:06		26.2	27.17	26.78	16.81
8/6/2007 0:06		26.2	26.68	26.78	16.81
8/6/2007 0:07		26.2	27.17	26.68	17.09
8/6/2007 0:07		26.2	27.76	26.68	17.48
8/6/2007 0:07		26.2	27.67	26.49	18.14
8/6/2007 0:07		26.1	27.86	26.29	18.81
8/6/2007 0:08		26.1	27.27	26.1	20.04
8/6/2007 0:08		26.1	27.67	25.9	20.71
8/6/2007 0:08		26.2	26.88	25.71	22.53
8/6/2007 0:08		26.2	26.49	25.51	22.43
8/6/2007 0:09		26.2	26.98	25.42	21.38
8/6/2007 0:09		26.2	26.49	25.32	22.53
8/6/2007 0:09		26.2	27.57	26.2	24.84
8/6/2007 0:09		26.2	27.57	26.59	25.9
8/6/2007 0:10		26.2	26.88	26.68	26.1
8/6/2007 0:10		26.2	27.76	26.78	26.49
8/6/2007 0:10		26.2	27.37	26.78	28.36
8/6/2007 0:10		26.2	26.88	26.78	30.26
8/6/2007 0:11		26.2	27.76	26.78	30.15
8/6/2007 0:11		26.29	27.37	26.78	29.45
8/6/2007 0:11		26.29	26.88	26.59	29.05
8/6/2007 0:11		26.29	26.78	26.39	30.15
8/6/2007 0:12		26.29	27.67	26.29	29.35
8/6/2007 0:12		26.29	27.76	26.2	28.85
8/6/2007 0:12		26.29	27.76	26	30.15
8/6/2007 0:12		26.29	27.27	25.9	30.66
8/6/2007 0:13		26.29	27.37	25.81	29.95
8/6/2007 0:13		26.29	26.98	26.39	27.57
8/6/2007 0:13		26.29	27.76	26.78	26.78
8/6/2007 0:13		26.39	27.27	26.88	27.67
8/6/2007 0:14		26.39	27.47	26.88	28.85
8/6/2007 0:14		26.39	27.08	26.88	28.06
8/6/2007 0:14		26.39	27.76	26.88	27.37
8/6/2007 0:14		26.39	27.47	26.88	26.2
8/6/2007 0:15		26.39	26.98	26.78	24.64
8/6/2007 0:15		26.39	27.67	26.59	23.87
8/6/2007 0:15		26.39	27.67	26.39	22.43
8/6/2007 0:15		26.39	27.08	26.29	19.95
8/6/2007 0:16		26.39	26.68	26.1	19.19
8/6/2007 0:16		26.39	27.47	25.9	19.85
8/6/2007 0:16		26.39	27.67	25.71	19.95
8/6/2007 0:16		26.39	27.76	25.51	21.38
8/6/2007 0:17		26.29	27.76	25.9	22.33
8/6/2007 0:17		26.29	26.98	26.39	24.84
8/6/2007 0:17		26.29	26.78	26.59	27.67
8/6/2007 0:17		26.39	26.88	26.68	25.61
8/6/2007 0:18		26.39	26.29	26.68	23.97
8/6/2007 0:18		26.39	26	26.68	30.96
8/6/2007 0:18		26.39	27.67	26.68	25.71
8/6/2007 0:18		26.39	27.17	26.68	25.03
8/6/2007 0:19		26.39	26.59	26.59	23.97
8/6/2007 0:19		26.39	27.67	26.39	22.05
8/6/2007 0:19		26.39	27.47	26.2	21.66
8/6/2007 0:19		26.39	26.88	26	20.42
8/6/2007 0:20		26.39	26.29	25.81	19.57
8/6/2007 0:20		26.39	27.47	25.71	18.81
8/6/2007 0:20		26.39	26.78	25.61	17.95
8/6/2007 0:20		26.39	26.68	25.51	17.48
8/6/2007 0:21		26.39	27.47	25.81	16.9
8/6/2007 0:21		26.39	27.76	26.39	16.24
8/6/2007 0:21		26.39	26.88	26.68	17
8/6/2007 0:21		26.39	27.17	26.68	16.24
8/6/2007 0:22		26.39	26.78	26.68	16.14
8/6/2007 0:22		26.39	27.27	26.68	15.86
8/6/2007 0:22		26.39	26.98	26.59	15.76

8/6/2007 0:22		26.39	26.78	26.59	15.76
8/6/2007 0:23		26.39	27.47	26.49	15.76
8/6/2007 0:23		26.39	27.37	26.2	15.86
8/6/2007 0:23		26.39	26.68	26	15.66
8/6/2007 0:23		26.39	26.29	25.81	15.38
8/7/2007 0:00		26.39	27.57	25.61	15.28
8/7/2007 0:00		26.39	27.27	25.51	14.9
8/7/2007 0:00		26.29	26.59	25.32	14.71
8/7/2007 0:00		26.29	27.27	25.22	14.61
8/7/2007 0:01		26.29	27.47	25.32	14.42
8/7/2007 0:01		26.29	27.57	26.2	14.42
8/7/2007 0:01		26.29	26.78	26.29	14.61
8/7/2007 0:01		26.29	26.59	26.39	15.19
8/7/2007 0:02		26.29	27.17	26.49	15.47
8/7/2007 0:02		26.29	26.88	26.39	15.28
8/7/2007 0:02		26.29	26.2	26.39	15.47
8/7/2007 0:02		26.29	27.37	26.39	15.57
8/7/2007 0:03		26.29	26.88	26.29	16.24
8/7/2007 0:03		26.29	27.17	26	16.9
8/7/2007 0:03		26.29	26.98	25.71	16.81
8/7/2007 0:03		26.29	26.2	25.42	16.71
8/7/2007 0:04		26.29	27.17	25.22	16.24
8/7/2007 0:04		26.29	26.39	25.03	15.86
8/7/2007 0:04		26.29	27.47	24.84	15.95
8/7/2007 0:04		26.29	26.49	24.64	16.05
8/7/2007 0:05		26.29	26.98	24.55	16.14
8/7/2007 0:05		26.29	26.59	25.32	16.14
8/7/2007 0:05		26.29	27.17	25.9	15.95
8/7/2007 0:05		26.29	26.68	26.2	15.66
8/7/2007 0:06		26.29	26.1	26.2	15.57
8/7/2007 0:06		26.29	26.29	26.29	15.95
8/7/2007 0:06		26.29	27.57	26.29	16.62
8/7/2007 0:06		26.2	27.08	26.2	17.19
8/7/2007 0:07		26.2	26.98	26.2	20.52
8/7/2007 0:07		26.2	26.2	26	20.52
8/7/2007 0:07		26.2	26.49	25.61	21.76
8/7/2007 0:07		26.2	26	25.32	20.52
8/7/2007 0:08		26.2	26.88	25.13	20.81
8/7/2007 0:08		26.2	26.1	24.84	20.71
8/7/2007 0:08		26.29	27.27	24.64	20.71
8/7/2007 0:08		26.29	26.59	24.45	21.57
8/7/2007 0:09		26.29	27.27	24.35	23
8/7/2007 0:09		26.29	26.59	24.26	24.74
8/7/2007 0:09		26.29	26	25.51	24.64
8/7/2007 0:09		26.29	27.27	25.9	24.64
8/7/2007 0:10		26.29	26.88	26.2	24.45
8/7/2007 0:10		26.29	26.1	26.2	24.26
8/7/2007 0:10		26.29	27.27	26.29	25.32
8/7/2007 0:10		26.29	27.27	26.2	26.2
8/7/2007 0:11		26.39	27.17	25.61	27.67
8/7/2007 0:11		26.49	26.59	25.03	30.26
8/7/2007 0:11		26.1	26.39	25.32	29.85
8/7/2007 0:11		25.9	25.81	24.64	28.56
8/7/2007 0:12		25.81	25.32	24.06	27.27
8/7/2007 0:12		25.9	25.71	23.68	28.26
8/7/2007 0:12		26.1	29.85	24.35	29.05
8/7/2007 0:12		26.2	27.57	24.84	31.17
8/7/2007 0:13		26.1	26.88	26	31.06
8/7/2007 0:13		25.81	26.88	25.71	31.27
8/7/2007 0:13		25.81	27.37	25.42	32.91
8/7/2007 0:13		25.71	27.57	25.22	29.45
8/7/2007 0:14		25.51	27.27	24.93	27.96
8/7/2007 0:14		25.51	26.88	24.84	30.46
8/7/2007 0:14		25.32	26.39	24.64	32.81
8/7/2007 0:14		25.13	26.39	24.64	31.68
8/7/2007 0:15		25.03	26.2	25.71	31.37
8/7/2007 0:15		25.03	26	26.1	34.8
8/7/2007 0:15		24.84	25.9	26.29	31.06
8/7/2007 0:15		24.74	25.9	26.39	28.95
8/7/2007 0:16		24.64	25.9	26.39	27.76
8/7/2007 0:16		24.55	25.81	26.39	24.45
8/7/2007 0:16		24.45	25.81	26.39	24.55
8/7/2007 0:16		24.26	25.9	26.29	24.64
8/7/2007 0:17		24.16	25.81	26.29	25.42
8/7/2007 0:17		24.06	25.61	26	27.67
8/7/2007 0:17		23.97	25.42	25.71	31.37
8/7/2007 0:17		23.87	25.22	25.42	28.36
8/7/2007 0:18		23.68	25.22	25.22	28.16
8/7/2007 0:18		23.68	25.22	25.03	26.59
8/7/2007 0:18		23.58	25.42	24.93	26.1
8/7/2007 0:18		23.39	25.13	24.74	25.51
8/7/2007 0:19		23.39	25.13	24.55	24.06
8/7/2007 0:19		23.29	25.13	25.61	22.62
8/7/2007 0:19		23.29	25.22	25.9	21.66
8/7/2007 0:19		23.2	25.32	26.1	20.81
8/7/2007 0:20		23.1	25.22	26.1	20.33
8/7/2007 0:20		23.1	25.22	26.1	19.28
8/7/2007 0:20		23	25.32	26.1	18.71
8/7/2007 0:20		22.81	25.32	26.1	18.62

8/7/2007 0:21		22.72	25.22	26.1	18.05
8/7/2007 0:21		22.72	25.42	26	17.86
8/7/2007 0:21		22.53	25.13	25.71	17.38
8/7/2007 0:21		22.33	25.13	25.51	16.71
8/7/2007 0:22		22.14	25.42	25.32	16.81
8/7/2007 0:22		22.14	25.42	25.13	16.62
8/7/2007 0:22		21.95	25.13	24.93	15.86
8/7/2007 0:22		21.76	24.93	24.84	16.43
8/7/2007 0:23		21.47	24.84	24.74	18.52
8/7/2007 0:23		21.47	24.84	24.55	17.67
8/7/2007 0:23		21.28	24.84	25.22	17.19
8/7/2007 0:23		21.09	24.74	25.51	16.81
8/8/2007 0:00		20.9	24.84	25.71	15.66
8/8/2007 0:00		20.81	24.74	25.71	14.8
8/8/2007 0:00		20.71	24.74	25.81	15.95
8/8/2007 0:00		20.42	24.64	25.81	17.09
8/8/2007 0:01		20.23	24.64	25.81	17.19
8/8/2007 0:01		20.23	24.55	25.81	16.62
8/8/2007 0:01		20.14	24.55	25.71	17.95
8/8/2007 0:01		19.85	24.35	25.71	18.05
8/8/2007 0:02		19.66	24.16	25.42	18.24
8/8/2007 0:02		19.66	24.06	25.13	17.19
8/8/2007 0:02		19.57	24.16	24.93	15.95
8/8/2007 0:02		19.38	24.26	24.74	17.57
8/8/2007 0:03		19.28	24.26	24.45	21.19
8/8/2007 0:03		19.19	24.26	24.35	19.95
8/8/2007 0:03		19.09	24.26	24.16	20.23
8/8/2007 0:03		18.9	24.16	23.97	20.04
8/8/2007 0:04		18.81	24.16	23.77	21
8/8/2007 0:04		18.71	24.26	24.74	21.19
8/8/2007 0:04		18.62	24.26	25.13	21.38
8/8/2007 0:04		18.43	24.26	25.03	21.19
8/8/2007 0:05		18.33	24.35	25.13	21.66
8/8/2007 0:05		18.33	24.16	25.22	21.86
8/8/2007 0:05		18.24	24.16	25.22	21.66
8/8/2007 0:05		18.05	23.58	25.13	20.9
8/8/2007 0:06		17.95	23.68	25.13	21.28
8/8/2007 0:06		17.95	23.48	25.13	21.47
8/8/2007 0:06		17.86	23.48	25.03	22.62
8/8/2007 0:06		17.76	23.39	24.84	24.35
8/8/2007 0:07		17.67	23.29	24.45	25.51
8/8/2007 0:07		17.67	22.81	24.06	26.59
8/8/2007 0:07		17.57	23	23.77	27.96
8/8/2007 0:07		17.48	23	23.48	29.75
8/8/2007 0:08		17.38	22.72	23.2	30.96
8/8/2007 0:08		17.38	22.53	22.91	31.78
8/8/2007 0:08		17.28	22.81	22.72	32.6
8/8/2007 0:08		17.19	22.62	22.33	32.6
8/8/2007 0:09		17.09	22.81	23.97	33.64
8/8/2007 0:09		17.09	22.62	24.35	29.65
8/8/2007 0:09		17.09	22.91	24.84	33.85
8/8/2007 0:09		17	23	24.93	34.9
8/8/2007 0:10		16.9	22.91	24.84	35.86
8/8/2007 0:10		16.9	22.91	24.84	36.08
8/8/2007 0:10		16.81	23.2	24.93	38.27
8/8/2007 0:10		16.81	23.1	24.93	36.84
8/8/2007 0:11		16.71	23.39	25.13	34.8
8/8/2007 0:11		16.71	23.29	25.13	34.37
8/8/2007 0:11		16.71	23.58	24.74	37.17
8/8/2007 0:11		16.62	23.48	24.55	37.71
8/8/2007 0:12		16.62	23.39	24.35	35.76
8/8/2007 0:12		16.62	23.77	24.16	35.22
8/8/2007 0:12		16.52	23.77	23.97	38.71
8/8/2007 0:12		16.52	23.97	23.77	39.39
8/8/2007 0:13		16.52	23.97	23.68	39.28
8/8/2007 0:13		16.43	24.16	24.35	40.42
8/8/2007 0:13		16.43	24.16	25.03	41.34
8/8/2007 0:13		16.43	24.35	25.32	36.84
8/8/2007 0:14		16.43	24.26	25.42	32.7
8/8/2007 0:14		16.33	24.45	25.51	31.78
8/8/2007 0:14		16.33	24.45	25.51	31.78
8/8/2007 0:14		16.24	24.26	25.51	35.01
8/8/2007 0:15		16.33	24.55	25.51	32.39
8/8/2007 0:15		16.24	24.74	25.51	38.16
8/8/2007 0:15		16.24	24.64	25.51	35.54
8/8/2007 0:15		16.24	24.84	25.22	38.83
8/8/2007 0:16		16.14	24.93	25.03	38.94
8/8/2007 0:16		16.14	24.74	24.84	40.42
8/8/2007 0:16		16.14	24.84	24.74	42.4
8/8/2007 0:16		16.05	24.64	24.55	41.46
8/8/2007 0:17		16.05	24.74	24.45	33.33
8/8/2007 0:17		16.05	24.84	24.35	32.29
8/8/2007 0:17		16.05	24.84	24.64	29.75
8/8/2007 0:17		16.05	24.74	25.13	30.05
8/8/2007 0:18		15.95	24.93	25.42	29.75
8/8/2007 0:18		15.95	24.84	25.51	29.35
8/8/2007 0:18		15.95	24.93	25.51	34.69
8/8/2007 0:18		15.95	24.84	25.51	35.97
8/8/2007 0:19		15.86	24.93	25.51	34.06

8/8/2007 0:19		15.86	25.13	25.51	36.62
8/8/2007 0:19		15.86	25.13	25.51	33.01
8/8/2007 0:19		15.86	25.03	25.51	26.68
8/8/2007 0:20		15.76	25.22	25.32	24.74
8/8/2007 0:20		15.76	25.22	25.22	23.68
8/8/2007 0:20		15.76	25.22	25.13	22.72
8/8/2007 0:20		15.76	25.13	25.03	22.53
8/8/2007 0:21		15.66	25.13	24.93	21.57
8/8/2007 0:21		15.66	25.22	24.84	21.09
8/8/2007 0:21		15.57	25.13	24.74	20.62
8/8/2007 0:21		15.66	25.22	24.55	20.33
8/8/2007 0:22		15.57	25.22	24.84	20.71
8/8/2007 0:22		15.57	25.13	25.13	19.28
8/8/2007 0:22		15.47	25.13	25.32	18.52
8/8/2007 0:22		15.47	24.93	25.32	19.47
8/8/2007 0:23		15.47	25.03	25.32	19.85
8/8/2007 0:23		15.47	24.93	25.32	20.23
8/8/2007 0:23		15.38	24.93	25.22	20.52
8/8/2007 0:23		15.38	24.93	25.22	20.62

Field Measurement Calibration Records

Colorado State University
Center for Contaminant Hydrology
Calibration Record

Equipment ID: YSI 600 Series multiparameter electrode

Date: 05/24/2007

Equipment condition: good

Conductivity electrode: X 1413 uS/cm std.

pH electrode: X 7.0 std.

X 10.0 std.

Dissolved Oxygen – membrane condition damaged

Membrane changed? yes

Calibration X

Notes

Field calibration of dissolved oxygen electrode – DO charge out of range

Post data collection calibration check

Conductivity electrode: 1298 uS/cm value 1413 mS/cm std.

pH electrode: 7.1 value 7.0 std.

Notes

DO electrode reconditioned following return to lab

Colorado State University
Center for Contaminant Hydrology
Calibration Record

Equipment ID: YSI 600 Series multiparameter electrode

Date: 06/04/2007

Equipment condition: good

Conductivity electrode: X 1413 uS/cm std.

pH electrode: X 7.0 std.

X 10.0 std.

Dissolved Oxygen – membrane condition good

Membrane changed? no

Calibration X

Notes

Field calibration of dissolved oxygen electrode

Post data collection calibration check

Conductivity electrode: 1354 uS/cm value 1413 mS/cm std.

pH electrode: 7.0 value 7.0 std.

Notes

Colorado State University
Center for Contaminant Hydrology
Calibration Record

Equipment ID: YSI 600 Series multiparameter electrode

Date: 06/14/2007

Equipment condition: good

Conductivity electrode: X 1413 uS/cm std.

pH electrode: X 7.0 std.

X 4.0 std.

Dissolved Oxygen – membrane condition good

Membrane changed? no

Calibration X

Notes

Field calibration of dissolved oxygen electrode

Post data collection calibration check

Conductivity electrode: 1398 uS/cm value 1413 mS/cm std.

pH electrode: 6.9 value 7.0 std.

Notes

Colorado State University
Center for Contaminant Hydrology
Calibration Record

Equipment ID: YSI 600 Series multiparameter electrode

Date: 06/20/2007

Equipment condition: good

Conductivity electrode: X 1413 uS/cm std.

pH electrode: X 7.0 std.

X 4.0 std.

Dissolved Oxygen – membrane condition ok

Membrane changed? yes

Calibration X

Notes

Field calibration of dissolved oxygen electrode

Post data collection calibration check

Conductivity electrode: 1329 uS/cm value 1413 mS/cm std.

pH electrode: 7.0 value 7.0 std.

Notes

Colorado State University
Center for Contaminant Hydrology
Calibration Record

Equipment ID: YSI 600 Series multiparameter electrode

Date: 06/26/2007

Equipment condition: good

Conductivity electrode: X 1413 uS/cm std.

pH electrode: X 7.0 std.

X 4.0 std.

Dissolved Oxygen – membrane condition good

Membrane changed? no

Calibration X

Notes

Field calibration of dissolved oxygen electrode

Post data collection calibration check

Conductivity electrode: 1275 uS/cm value 1413 mS/cm std.

pH electrode: 7.1 value 7.0 std.

Notes

Colorado State University
Center for Contaminant Hydrology
Calibration Record

Equipment ID: YSI 600 Series multiparameter electrode

Date: 07/02/2007

Equipment condition: good

Conductivity electrode: X 1413 uS/cm std.

pH electrode: X 7.0 std.

X 10.0 std.

Dissolved Oxygen – membrane condition good

Membrane changed? no

Calibration X

Notes

Field calibration of dissolved oxygen electrode

Post data collection calibration check

Conductivity electrode: 1267 uS/cm value 1413 mS/cm std.

pH electrode: 6.9 value 7.0 std.

Notes

Colorado State University
Center for Contaminant Hydrology
Calibration Record

Equipment ID: YSI 600 Series multiparameter electrode

Date: 07/05/2007

Equipment condition: good

Conductivity electrode: X 1413 uS/cm std.

pH electrode: X 7.0 std.

X 10.0 std.

Dissolved Oxygen – membrane condition good

Membrane changed? no

Calibration X

Notes

Field calibration of dissolved oxygen electrode

Post data collection calibration check

Conductivity electrode: 1310 uS/cm value 1413 mS/cm std.

pH electrode: 6.9 value 7.0 std.

Notes

Colorado State University
Center for Contaminant Hydrology
Calibration Record

Equipment ID: YSI 600 Series multiparameter electrode

Date: 07/09/2007

Equipment condition: good

Conductivity electrode: X 1413 uS/cm std.

pH electrode: X 7.0 std.

X 4.0 std.

Dissolved Oxygen – membrane condition ok

Membrane changed? yes

Calibration X

Notes

Field calibration of dissolved oxygen electrode

Post data collection calibration check

Conductivity electrode: 1342 uS/cm value 1413 mS/cm std.

pH electrode: 7.0 value 7.0 std.

Notes

Colorado State University
Center for Contaminant Hydrology
Calibration Record

Equipment ID: YSI 600 Series multiparameter electrode

Date: 07/23/2007

Equipment condition: good

Conductivity electrode: X 1413 uS/cm std.

pH electrode: X 7.0 std.

X 4.0 std.

Dissolved Oxygen – membrane condition good

Membrane changed? no

Calibration X

Notes

Field calibration of dissolved oxygen electrode

Post data collection calibration check

Conductivity electrode: 1378 uS/cm value 1413 mS/cm std.

pH electrode: 7.1 value 7.0 std.

Notes

Colorado State University
Center for Contaminant Hydrology
Calibration Record

Equipment ID: YSI 600 Series multiparameter electrode

Date: 07/30/2007

Equipment condition: good

Conductivity electrode: X 1413 uS/cm std.

pH electrode: X 7.0 std.

X 10.0 std.

Dissolved Oxygen – membrane condition good

Membrane changed? no

Calibration X

Notes

Field calibration of dissolved oxygen electrode

Post data collection calibration check

Conductivity electrode: 1400 uS/cm value 1413 mS/cm std.

pH electrode: 7.0 value 7.0 std.

Notes

Colorado State University
Center for Contaminant Hydrology
Calibration Record

Equipment ID: YSI 600 Series multiparameter electrode

Date: 08/01/2007

Equipment condition: good

Conductivity electrode: X 1413 uS/cm std.

pH electrode: X 7.0 std.

X 4.0 std.

Dissolved Oxygen – membrane condition ok

Membrane changed? yes

Calibration X

Notes

Field calibration of dissolved oxygen electrode

Post data collection calibration check

Conductivity electrode: 1287 uS/cm value 1413 mS/cm std.

pH electrode: 7.1 value 7.0 std.

Notes

Colorado State University
Center for Contaminant Hydrology
Calibration Record

Equipment ID: YSI 600 Series multiparameter electrode

Date: 08/06/2007

Equipment condition: good

Conductivity electrode: X 1413 uS/cm std.

pH electrode: X 7.0 std.

X 10.0 std.

Dissolved Oxygen – membrane condition good

Membrane changed? no

Calibration X

Notes

Field calibration of dissolved oxygen electrode

Post data collection calibration check

Conductivity electrode: 1326 uS/cm value 1413 mS/cm std.

pH electrode: 7.0 value 7.0 std.

Notes

Colorado State University
Center for Contaminant Hydrology
Calibration Record

Equipment ID: YSI 600 Series multiparameter electrode

Date: 08/13/2007

Equipment condition: good

Conductivity electrode: X 1413 uS/cm std.

pH electrode: X 7.0 std.

X 4.0 std.

Dissolved Oxygen – membrane condition good

Membrane changed? no

Calibration X

Notes

Field calibration of dissolved oxygen electrode

Post data collection calibration check

Conductivity electrode: 1346 uS/cm value 1413 mS/cm std.

pH electrode: 7.1 value 7.0 std.

Notes

Colorado State University
Center for Contaminant Hydrology
Calibration Record

Equipment ID: YSI 600 Series multiparameter electrode

Date: 08/21/2007

Equipment condition: good

Conductivity electrode: X 1413 uS/cm std.

pH electrode: X 7.0 std.

X 10.0 std.

Dissolved Oxygen – membrane condition good

Membrane changed? no

Calibration X

Notes

Field calibration of dissolved oxygen electrode

Post data collection calibration check

Conductivity electrode: 1277 uS/cm value 1413 mS/cm std.

pH electrode: 6.9 value 7.0 std.

Notes

Colorado State University
Center for Contaminant Hydrology
Calibration Record

Equipment ID: YSI 600 Series multiparameter electrode

Date: 08/28/2007

Equipment condition: good

Conductivity electrode: X 1413 uS/cm std.

pH electrode: X 7.0 std.

X 4.0 std.

Dissolved Oxygen – membrane condition ok

Membrane changed? yes

Calibration X

Notes

Field calibration of dissolved oxygen electrode

Post data collection calibration check

Conductivity electrode: 1337 uS/cm value 1413 mS/cm std.

pH electrode: 7.0 value 7.0 std.

Notes

Colorado State University
Center for Contaminant Hydrology
Calibration Record

Equipment ID: YSI 600 Series multiparameter electrode

Date: 09/11/2007

Equipment condition: good

Conductivity electrode: X 1413 uS/cm std.

pH electrode: X 7.0 std.

X 4.0 std.

Dissolved Oxygen – membrane condition good

Membrane changed? no

Calibration X

Notes

Field calibration of dissolved oxygen electrode

Post data collection calibration check

Conductivity electrode: 1267 uS/cm value 1413 mS/cm std.

pH electrode: 7.1 value 7.0 std.

Notes

Rocky Flats
Solar Ponds Plume Treatability Study
Colorado State University - Center for Contaminant Hydrology

Initials	<u>DG/NM</u>		Notes:
Date	<u>06/08/07</u>		<u>SOME PANELS DISLODGED IN WINDSTORM - REARRANGED</u> <u>NO APPARENT POWER LOSS (WINDSTORM ON 06/07 PM)</u>
Time on site	<u>11:10</u>		
Time off site	<u>13:00</u>		
Weather	<u>CLEAR</u>		
Battery charge	<u>12.4 - SEE NOTE</u>		
Sample collection	Holding tank	<input checked="" type="checkbox"/>	<u>INF</u>
	Eff. - plastic	<input checked="" type="checkbox"/>	<u>EFF PBA GEAR</u>
	Eff. - gravel	<input checked="" type="checkbox"/>	<u>EFF NOR PARK</u>
		$T = 11.31$	$T = 12.44$
		$EC = 4.488$	$EC = 3.897$
		$DO = 38.2\% / 4.11$	$DO = \cancel{12.84} / 1.3$ Δ Variable
		$pH = 6.87$	$pH = 7.56$
		$ORP = 133.$	$ORP = 111.6$
Water parameters	Holding tank	<input checked="" type="checkbox"/>	<u>Need More String</u>
	Eff. - plastic	<input checked="" type="checkbox"/>	<u>Pump tubing</u>
	Eff. - gravel	<input checked="" type="checkbox"/>	

Rocky Flats
Solar Ponds Plume Treatability Study
Colorado State University - Center for Contaminant Hydrology

Initials	DG			Notes:
Date	06/11/67			~9L MEOH ADDED TO EACH RESERVOIR
Time on site	10:30			
Time off site				
Weather	Partly cloudy ~75°F			
Battery charge	13.6			
Sample collection	Holding tank	<input checked="" type="checkbox"/>	INF	EFF GRAN
	Eff. - plastic	<input type="checkbox"/>	T 11.9	EFF NOLPACK 16.48
	Eff. - gravel	<input checked="" type="checkbox"/>	EC 4499	3.227 4122
Water parameters	DO	4.26/40%	DO 4.26/40%	1.14/11.6% 1.22/12.7%
	pH	6.90	pH 6.90	7.56 7.30
	ORP	+88	ORP +88	+55.0 +48

SUPPLIES

- GLOVES
- FISHING DEVICE (FORCERS) - NOTE SAMPLE VIAL LOST IN PLASTIC SACK FROM THROUGH DUMP MEDIUM ON 650 YSI

Rocky Flats
Solar Ponds Plume Treatability Study
Colorado State University - Center for Contaminant Hydrology

Initials	DG/NM		Notes:
Date	06/14/07		
Time on site	10:45		
Time off site			
Weather	Clear / Hot		
Battery charge	13.6		
Sample collection	Holding tank	<input type="checkbox"/>	
	Eff. - plastic	<input checked="" type="checkbox"/>	
	Eff. - gravel	<input checked="" type="checkbox"/>	
Water parameters	Holding tank	<input checked="" type="checkbox"/>	
	Eff. - plastic	<input checked="" type="checkbox"/>	
	Eff. - gravel	<input checked="" type="checkbox"/>	

Rocky Flats
Solar Ponds Plume Treatability Study
Colorado State University - Center for Contaminant Hydrology

Initials	MO		Notes:
Date	6/20/07		<u>No apparent pond flow</u>
Time on site	12:20		effluent lines → both flow through cells
Time off site			empty → opened sample port, no pressure
Weather	Windy, sunny 95°		Reactors apparently de-pressurized
Battery charge	13.4		
Sample collection	Holding tank	<input checked="" type="checkbox"/>	
	Eff. - plastic	n <input checked="" type="checkbox"/> *	
	Eff. - gravel	n <input checked="" type="checkbox"/> *	
Water parameters	Holding tank	<input checked="" type="checkbox"/>	changed pump tubing (main) seems to have restricted flow
	Eff. - plastic	n <input checked="" type="checkbox"/> *	
	Eff. - gravel	n <input checked="" type="checkbox"/> *	expected lab study waste into treatment cell

Note: Consider changing pump tubing weekly

↳ both pumps?

Rocky Flats
Solar Ponds Plume Treatability Study
Colorado State University - Center for Contaminant Hydrology

Initials	NM		Notes:
Date	6/21/07		Changed MeOH tubes.
Time on site	11:00 AM		Flow appears to be reestablished.
Time off site	12:15		Flow is reestablished to the Gravel Reactor
Weather	Clear & Hot		When taking the effluent samples for both reactors, vials were rinsed 3 times w/ effluent, because no DI water was present.
Battery charge	13.4		Flow is also reestablished to the Norpath reactor
Sample collection	Holding tank	<input checked="" type="checkbox"/>	
	Eff. - plastic	<input checked="" type="checkbox"/>	
	Eff. - gravel	<input checked="" type="checkbox"/>	
Water parameters	Holding tank	<input checked="" type="checkbox"/>	
	Eff. - plastic	<input checked="" type="checkbox"/>	
	Eff. - gravel	<input checked="" type="checkbox"/>	

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Initials	DG/NM		Notes:
Date	06/26/07		
Time on site	10:45		
Time off site	12:45		
Weather	OVERCAST ~70°F		
Battery charge	12.8 Green		
Sample collection	Holding tank	<input checked="" type="checkbox"/>	
	Eff. - plastic	<input checked="" type="checkbox"/>	
	Eff. - gravel	<input checked="" type="checkbox"/>	
Water parameters	Holding tank	<input checked="" type="checkbox"/>	
	Eff. - plastic	<input checked="" type="checkbox"/>	
	Eff. - gravel	<input checked="" type="checkbox"/>	

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Initials	DS/NM		Notes: TRACER STUDY ON GOALS - 12 SAMPLES FROM EACH 15 CO - PATTERNS CHANGED? RE PROGRAM changed pump tubing & advanced tubing on MOTH Pump (need to swap next time)
Date	06/29/07		
Time on site	11:00		
Time off site	13:00		
Weather	CLEAR ~ 80°F		
Battery charge	13.3		
Sample collection	Holding tank	<input checked="" type="checkbox"/>	
	Eff. - plastic	<input checked="" type="checkbox"/>	
	Eff. - gravel	<input checked="" type="checkbox"/>	
Water parameters	Holding tank	<input checked="" type="checkbox"/>	
	Eff. - plastic	<input checked="" type="checkbox"/>	
	Eff. - gravel	<input checked="" type="checkbox"/>	

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Initials	D6/NM		Notes: TRACER STUDY SAMPLES TAKEN GRAVEL #1 DRY NORPAK #14 DRY NORPAK #16 DRY NORPAK #9 LOW VOLUME SAMPLING DISCONTINUED (LAST SAMPLE @ 0600 07/03/07) MECH ADDED 4800 mL 5000 mL @ 12:00 MECH PUMP TUBING REPLACED
Date	07/03/07		
Time on site	11:00		
Time off site	12:45		
Weather	CLEAR / HOT		
Battery charge	13.2		
Sample collection	Holding tank	<input checked="" type="checkbox"/>	
	Eff. - plastic	<input checked="" type="checkbox"/>	
	Eff. - gravel	<input checked="" type="checkbox"/>	
Water parameters	Holding tank	<input checked="" type="checkbox"/>	
	Eff. - plastic	<input checked="" type="checkbox"/>	
	Eff. - gravel	<input checked="" type="checkbox"/>	

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Initials	Mo/NM		Notes:
Date	7/6/07		Upon arrival opened trailer - peristaltic (motor) was working, then stopped; cycled every minute or so. Could not change flow rate. Seems to be short circuit (?). None of the buttons behave normally. Cycled power - some results.
Time on site	10:15		
Time off site	11:35		
Weather	Sunny & Warm		
Battery charge	13.4 V		
Sample collection	Holding tank	<input checked="" type="checkbox"/>	
	Eff. - plastic	<input type="checkbox"/>	
	Eff. - gravel	<input type="checkbox"/>	
Water parameters	Holding tank	<input checked="" type="checkbox"/>	
	Eff. - plastic	<input checked="" type="checkbox"/>	
	Eff. - gravel	<input type="checkbox"/>	

* holding tank level very low; 1st 2 readings, in initial water
Nick cycled pump power, some water flowed in → 3rd reading → new water

* * change tubing → no effect
* * * Some results w/ no loc on pump
- appears to be electrical
Bring w/l tape next time!

Pure
Cole Varner
7524-40

Next week
new pump (?)
w/l tape

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Initials	Mo		Notes:
Date	7/16/07		Pump not running; power is on (LCD is lit)
Time on site	11:45 AM		Changed out peristaltic pump → now using
Time off site	13:10		old pump from Pueblo project
Weather	80° & cloudy		
Battery charge	full 13.0V		
Sample collection	Holding tank	<input checked="" type="checkbox"/>	
	Eff. - plastic	<input checked="" type="checkbox"/>	
	Eff. - gravel	<input checked="" type="checkbox"/>	
Water parameters	Holding tank	<input checked="" type="checkbox"/>	SPIN w/L 28.04 ft
	Eff. - plastic	<input checked="" type="checkbox"/>	
	Eff. - gravel	<input checked="" type="checkbox"/>	

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Initials	NM		Notes:
Date	7/18/07		Both pumps are running
Time on site	10:00		
Time off site			
Weather	Clear & sunny		MeOH MeOH tubing to plastic reactor was disconnected
Battery charge	13.0		Levels of MeOH differed significantly
Sample collection	Holding tank	<input type="checkbox"/>	
	Eff. - plastic	<input type="checkbox"/>	MeOH Tubing was changed
	Eff. - gravel	<input type="checkbox"/>	Levels of MeOH
Water parameters	Holding tank	<input type="checkbox"/>	plastic
	Eff. - plastic	<input type="checkbox"/>	7/3/07 neck 7/6/07 slightly 20L (1/4") 7/10/07 16.3L
	Eff. - gravel	<input type="checkbox"/>	gravel neck 1/4" below 20L 15.0 L

7/18/07 13.8L

6.5L

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Initials	DG/NM		Notes:
Date	07/23/07		
Time on site	10:45		
Time off site			
Weather	clear/HOT		
Battery charge	13.2 Green		
Sample collection	Holding tank	<input checked="" type="checkbox"/>	
	Eff. - plastic	<input checked="" type="checkbox"/>	
	Eff. - gravel	<input checked="" type="checkbox"/>	
Water parameters	Holding tank	<input checked="" type="checkbox"/>	
	Eff. - plastic	<input checked="" type="checkbox"/>	
	Eff. - gravel	<input checked="" type="checkbox"/>	

BOTH PUMPS running
 Measured flow rate ok BOTH CHANNELS
 SAMPLES OF EFF & INF TAKEN FOR
 AERobic LAB SUBMITAL
 SPIN DISCONNECTED IN PREPARATION
 OF SWITCHOVER TO DG

Rocky Flats
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Initials	NM		Notes:
Date	7/30/07		
Time on site	10:30		Refilled MeOH reservoirs
Time off site			
Weather	Clear		
Battery charge	13.4		
Sample collection	Holding tank	<input checked="" type="checkbox"/>	
	Eff. - plastic	<input checked="" type="checkbox"/>	
	Eff. - gravel	<input checked="" type="checkbox"/>	
Water parameters	Holding tank	<input checked="" type="checkbox"/>	
	Eff. - plastic	<input checked="" type="checkbox"/>	The DO membrane appeared to go bad the DO results were somewhere in the area of 14
	Eff. - gravel	<input checked="" type="checkbox"/>	

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Initials	Mo/NM		Notes:
Date	8/2/07		Pumps okay; MeOH tubing was changed
Time on site	10:30 A		
Time off site	2:00 P		
Weather	Partly cloudy		
Battery charge	13.6		
Sample collection	Holding tank	<input checked="" type="checkbox"/>	
MeOH &	Eff. - plastic	<input checked="" type="checkbox"/>	
NO ₃	Eff. - gravel	<input checked="" type="checkbox"/>	
Water parameters	Holding tank	<input checked="" type="checkbox"/>	
	Eff. - plastic	<input checked="" type="checkbox"/>	
	Eff. - gravel	<input checked="" type="checkbox"/>	

DG water → added 8 tanks
(~ 10-12 gallons each) reservoir
near full

2 samples; 1 reservoir, 1 sample port
1 MeOH sample from reservoir

→ early reading only → DO # went weird
couldn't reestablish acceptable readings

Rocky Flats
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Initials	DG/NM		Notes: MeOH levels: Gravel 10.75 L Reservoirs Norgate 8 L Ret. filled
Date	8/14/07		
Time on site	10:30		
Time off site			
Weather			
Battery charge	13.1 (cells cleaned)		
Sample collection		Holding tank <input checked="" type="checkbox"/>	Influent tank level above overflow no evidence of overtopping
		Eff. - plastic <input checked="" type="checkbox"/>	
		Eff. - gravel <input checked="" type="checkbox"/>	
Water parameters		Holding tank <input checked="" type="checkbox"/>	
		Eff. - plastic <input checked="" type="checkbox"/>	
		Eff. - gravel <input checked="" type="checkbox"/>	

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Initials	MHP6		ALK TITRATIONS: INF: 302, 307, 310 Gravel: 760* Norpac: 1030 DG: 357, 365 * HIGH TURBIDITY	
Date	8/7/07			
Time on site	10:45			
Time off site				
Weather	Cloudy*			
Battery charge	17.1			
Sample collection	Holding tank	<input checked="" type="checkbox"/> 4		
	Eff. - plastic	<input checked="" type="checkbox"/>		
	Eff. - gravel	<input checked="" type="checkbox"/>		
Water parameters	Holding tank	<input checked="" type="checkbox"/>		
	Eff. - plastic	<input checked="" type="checkbox"/>		
	Eff. - gravel	<input checked="" type="checkbox"/>		

MeOH levels*: Gravel 14 L
Norpac 13 L

re-plumbed SPIN - added to
remaining DG water (initially
~ 1/2 full)

* Changed flow setting to 10 (was 20)

Rocky Flats
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Initials	DG		Notes: Pump:OK MeOH samples submitted to STL $RF - I - O \pm = Inf$ $RF - G - O \pm = Gravel$ $RF - N - O \pm = Norp$ Added 8L MeOH to Gravel Tank 0.7 mL/min 6L 0.5 mL/min followed by off Tubing in MeOH pump clogged @ 14:00 Bio-fouling MeOH injection rate decreased @ 14:15 Peristaltic tubing clogged @ 14:30
Date	8/22/07		
Time on site	13:00		
Time off site			
Weather			
Battery charge	12.6		
Sample collection	Holding tank	<input checked="" type="checkbox"/>	
	Eff. - plastic	<input checked="" type="checkbox"/>	
	Eff. - gravel	<input checked="" type="checkbox"/>	
Water parameters	Holding tank	<input checked="" type="checkbox"/>	
	Eff. - plastic	<input checked="" type="checkbox"/>	
	Eff. - gravel	<input checked="" type="checkbox"/>	

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Initials	DG		Notes: System OK
Date	8/29/07		
Time on site	10:30		
Time off site			
Weather			
Battery charge	12.5 (yellow)		
Sample collection		Holding tank	<input checked="" type="checkbox"/>
		Eff. - plastic	<input checked="" type="checkbox"/>
		Eff. - gravel	<input checked="" type="checkbox"/>
Water parameters		Holding tank	<input checked="" type="checkbox"/>
		Eff. - plastic	<input checked="" type="checkbox"/>
		Eff. - gravel	<input checked="" type="checkbox"/>

→ Samples collected for:
 IC (CCH) - Qands from each
 MeOH (STL) - RF-I-OZ = Influent line (plastic)
 - RF-G-OZ = Gravel eff
 - RF-N-OZ = Norpine eff